



# Table Tennis Pro Analyzer

## User Manual

Guide to Features, Functionalities, and Best Practices

### General Information

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### Purpose of This Manual

This manual presents the main features, functionalities, and best practices for using the Table Tennis Pro Analyzer platform. The tool is designed to support the technical and social development of table tennis players, offering a comprehensive approach to improving performance in the sport.






**To access Table Tennis Pro Analyzer:**



or <http://bit.ly/47BYJlo>




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## Overview

Welcome to **Table Tennis Pro Analyzer** — a **complete platform** for technical and social development in table tennis. This is an integrated suite composed of three complementary functions that work together to transform how you play and interact:

-  **Match History**  
Record and track your matches with strategic detail.
-  **GameScope AI**  
Receive intelligent analysis and personalized insights about your performance.
-  **Movement Analysis**  
Compare your strokes with professional players using 3D biomechanical analysis.

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## The Importance of the Social Aspect

### The Problem We Solve


Many players practice table tennis in isolation, facing the same opponents for months or years without even knowing their names. This limits:

- Building relationships within the sport
- Developing a strong community
- Strategic analysis of different player profiles
- Recognizing patterns of wins and losses

### Our Proposal

**Table Tennis Pro Analyzer** goes beyond technical analysis. From the moment you start using the platform, you're encouraged to:

- **Get to know your opponents** — Start with the basics: ask their name
- **Record characteristics** — Playing style, rubber type, skill level
- **Create connections** — Turn anonymous matches into memorable games
- **Build community** — Develop lasting relationships through the sport

 **Key Insight:** The more information you record about your opponents (style, rubber, level), the more accurate and valuable the insights generated by **GameScope AI** will be for your technical development.

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## Getting Started

### 1. Create Your Account

To start using Table Tennis Pro Analyzer:

1. Access the platform.
2. Click on "**Create Account**".
3. Fill in the following information:
  - Full name
  - Email
  - Password (minimum 6 characters)
  - Age
  - Country
  - Table tennis experience
    - Less than 1 year
    - 1 to 5 years
    - More than 5 years
  - Current skill level:
    - Beginner
    - Intermediate
    - Advanced
  - Grip Style:
    - Penhold
    - RPB (Chinese Penhold)
    - Shake-hand
  - Rubber Types (up to 2):
    - Smooth
    - Short pips
    - Medium pips
    - Long pips
    - Antispin
4. Read and accept the **Privacy Policy** (required)
5. Click "**Register**".

## **About Email Verification**

**IMPORTANT:** Email validation is NOT required to use the system, but is HIGHLY recommended.

### **Why validate your email?**

- Password recovery: Only works if email is validated
- Security: Confirms the email belongs to you
- Data retention: Accounts without validated email and inactive for 90 days will be automatically deleted

### **How to validate your email:**





#### **Method 1 - After registration:**

1. After registration, you'll receive an email with a 6-digit code
2. A modal will appear to enter the code
3. Enter the code and click "Verify Email"
4. Done! Email validated

#### **Method 2 - Google Login:**

If you use "Sign in with Google", your email is automatically validated! This is the easiest way.

#### **Method 3 - Through Profile:**

1. Log in normally
2. Go to  My Profile
3. Next to email, you'll see:
  -  "Verified" - already validated
  -  "Not verified" - needs validation
4. If not verified, click "  Validate Email"
5. A code will be sent to your email
6. Enter the code in the modal that appears

#### **Method 4 - Through Banner:**

1. An orange banner will appear on all pages reminding about validation
2. Click "Validate Now"

### 3. Follow the instructions




💡 **Tip:** If you can't find the email in your inbox, check your SPAM or Junk folder.

⚠️ The reminder banner appears every 7 days for users with unvalidated email.

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## 2. Main Navigation

After logging in, you'll see three main cards representing the platform's modules:

-  **Match History**  
Record and manage your matches.
  -  **GameScope AI**  
Access intelligent insights about your performance.
  -  **Movement Analysis**  
Upload videos for biomechanical analysis and receive technical feedback.
-

## 1: Game History

### What is it?

This is the **heart of the platform**. Here, you record every match you play, creating a complete database that powers all **GameScope AI** analyses.

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## 1.1 Registering Opponents

### Why register opponents?

- Get to know who you're playing against
- Build a detailed history against each opponent
- Allow GameScope AI to identify performance patterns
- Build a social network within your club or community

### How to register an opponent:


1. Go to **Game History**
2. Click on **Register Opponent**
3. Fill in the data:

#### Required:

- Name

#### Optional (highly recommended):

- Grip style: Penhold, Chinese Penhold (Classineta), Shake-hand
- Rubber type (up to 2): Smooth, Short Pips, Medium Pips, Long Pips, Antispin
- Skill level (1 to 5): Beginner to Professional
- Age group: <10, 10–30, 30–50, >50
- Dominant hand: Right-handed or Left-handed
- Additional notes (up to 500 characters)

 **Pro Tip:** The more data you record, the more accurate the insights will be.

Example: If you register the rubber type, the system may detect that you struggle against “long pips” and suggest specific training.

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## 1.2 Import Opponents by TTPA Code

### What is the TTPA Code?






The **TTPA Code** (Table Tennis Pro Analyzer) is a unique and personal code that each user has. It allows you to:

- **Share your data** with other players who also use the system
- **Import opponents** automatically without having to type all the data manually
- **Connect** with other platform users
- **Keep data synchronized** - when the opponent updates their profile, the data is automatically updated in your list


### How Does it Work?

1. **Each user has their own TTPA Code** (example: "John01", "Mary23")
2. **You share your code** with your opponents
3. **They import you** using your code
4. **Data stays connected** - automatic updates



### Advantages of using TTPA Code:

-  **Instant import** - no need to type name, style, rubber, etc.
-  **Always up-to-date data** - if opponent changes rubber, you see automatically
-  **Visual connection** - opponents imported via TTPA appear with  icon
-  **Game sharing** - both can register the same game

### Where to find your TTPA Code?

1. Log in to the system
2. Click  **My Profile** in the top menu
3. Your TTPA code will appear highlighted at the top of the page
4. Example: " **John01** "

### How to Import an Opponent by TTPA Code:

1. Access **Game History**
2. Click  **Register Opponent**
3. At the top of the form, you'll see a purple section: "  **Import by TTPA Code** "
4. Enter the **opponent's TTPA code** (example: "Mary23")
5. Click "**Import**"
6. Done! The opponent will be automatically added with all data


 **Practical Example:**

You play against Mary at the club.

**Option 1 - Manual Registration (traditional):**

- Name: Mary Smith
- Style: Shakehand
- Rubber: Inverted
- Level: 4
- Hand: Right
- etc

**Option 2 - With TTPA Code (fast):**

- Ask for her TTPA code: "Mary23"
- Type "Mary23" in the import field
- Click "Import"
- DONE! All data imported automatically 

 **What happens if the opponent already exists?**

If you try to import a TTPA code of someone already on your list, the system will show two options:


**Option 1:**  **Reconnect Existing Opponent**

- Keeps all games already registered
- Updates opponent's data
- Restores TTPA connection
- Recommended if it's the same person

**Option 2:**  **Create New Opponent**

- Creates a second opponent with the same name
- Use if they are different people with the same name

 **Important:**

- You cannot import your own TTPA code
- TTPA code is case-insensitive (uppercase/lowercase doesn't matter)
- Opponents connected via TTPA appear with the  icon in the list

 **TTPA Code Usage Scenarios**

**Scenario 1: New Players at the Club**

Situation: You meet a new player at the club

1. Introduce yourself and ask: "Do you use Table Tennis Pro Analyzer?"
2. If yes, ask for their TTPA code: "What's your TTPA code?"
3. Import the code in the system
4. Result: Data imported instantly! 🔗

### **Scenario 2: Tournaments and Competitions**

Situation: You participated in a tournament and want to register games

1. Ask for opponents' TTPA codes
2. Import all codes
3. Register game results
4. Result: Complete tournament history with detailed data! 📊

### **Scenario 3: Group Training**

Situation: Regular training group

1. Everyone shares their TTPA codes in WhatsApp group
2. Each one imports the others' codes
3. Everyone register training games
4. Result: Collective database for evolution analysis! 📈

### **Scenario 4: Teacher/Coach (to be implemented)**

Situation: Teacher wants to track students

1. Students share their TTPA codes
2. Teacher imports all students
3. Teacher registers training games
4. Result: Detailed tracking of each student's evolution! 🎓

#### **💡 Golden Tip:**




When playing against someone for the first time:


1. Introduce yourself
2. Ask if they use TTPA
3. Exchange TTPA codes
4. Register the game immediately after

This creates an automatic history and you never need to type that person's data again!

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## 1.3 Managing Opponents


- **View list:** Click on  **View Opponents**
- **Edit:** Click on  **Edit**, modify the data, and save
- **Delete:** Click on  **Delete** and confirm

 **Note:** Matches recorded against this opponent will be kept, but the link to the opponent will be removed.

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## 1.4 Registering Matches

**How to register a match:**

1. Go to **Match History**
2. Click on  **Register New Match**
3. Fill in the following details:
  - **Match date** (required)
  - **Location** (optional)
  - **Opponent** (recommended)
  - **Sets won and lost** (required)
  - **Notes** (optional, up to 500 characters)

 **Example:**

Date: 15/10/2025


Location: Fair Play

Opponent: João Silva



Sets: 3 x 1 (win)

Notes: "Had trouble with his long pips serve, but adapted by the 3rd set."

### **TTPA Opponents in List**

When you select an opponent to register a game, opponents connected via TTPA Code appear with the  icon before the name:



**Opponent list:**

-  Mary Smith (connected via TTPA)
- John Santos (manual registration)
-  Peter Costa (connected via TTPA)


## 1.6 Register Games by Voice

The system allows you to save locations where you frequently play, making game registration easier and improving voice recognition.

### How to access:

1. Go to Game History
2. Click  Register New Game
3. In the "Location" field, click "  Manage favorite locations"




### How to add a location:

1. Click "  Add Location"
2. Enter the official location name (e.g., "Downtown Sports Club")
3. Add aliases separated by comma (e.g., "downtown, dsc, the club")
4. Click "Save"

### What are aliases for?

Aliases are used by voice recognition. When you say "downtown" during voice registration, the system understands you mean "Downtown Sports Club".

### Features:

-  Edit: Modify location name or aliases
-  Delete: Remove location from list
-  Usage counter: See how many times you used each location

### Auto-save suggestion:


When you type a new location that you've already used 3 or more times, the system will ask:

"You frequently play at [Location]. Would you like to save it to favorites?"

## 1.6 Register Games by Voice

Table Tennis Pro Analyzer offers a quick and practical way to register your games using voice commands, ideal for recording matches right after they end while still fresh in your memory.

**How to use:**

1. Go to Game History
2. Click the "  Register by Voice" button
3. The system will guide you through 7 voice steps:


**Step 1 - Date:**

Say the game date. Accepted examples:

- "Today"
- "Yesterday"
- "Day before yesterday"
- "December 15th"
- "The 10th"

**Step 2 - Opponent:**

Say the opponent's name. The system will search your registered opponents list.

 Tip: For Japanese opponents, the system also recognizes furigana readings.

**Step 3 - Result:**

Say the result: "Won", "Lost", or "Draw"

In Portuguese: "Vitória", "Derrota", "Empate"

In Japanese: "勝ち", "負け", "引き分け"


**Step 4 - Score:**

Say the score in sets. Examples:

- "3 to 1"
- "2 to 3"
- "3 sets to 2"

**Step 5 - Location:**

Say the location name. The system will search your favorite locations.

 Tip: Set up aliases for your locations (e.g., "Nipo" for "Nipo Brazilian Association")

**Step 6 - Observations (optional):**

Describe game details or say "Skip" to continue without observations.

### Step 7 - Confirmation:

The system will show a summary. Say "Confirm" to save or "Cancel" to discard.

#### ✔ Advantages of Voice Registration:

- Faster than typing
- Ideal for registering right after the game
- Works in Portuguese, English, and Japanese
- Smart recognition of opponents and locations



#### ⚠ Requirements:

- Browser with voice recognition support (Chrome, Edge, Safari)
- Microphone permission enabled
- Relatively quiet environment for better recognition

💡 **Pro Tip:** Register your opponents and favorite locations in advance so voice recognition works perfectly.

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## 1.7 Editing and Deleting Games





- **Edit:** In the match table, click on  , make changes, and save
- **Delete:** Click on  and confirm

⚠ **Note:** This action cannot be undone.

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## 1.8 General Statistics

At the top of the page, you'll see:


-  Wins
-  Losses
-  Draws
-  Win Rate (%)

These statistics are automatically updated with every match you register, edit, or delete.





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## 1.9 Charts and Analysis

### How to access:

1. Click on  **View Charts**
2. Choose the time range: Last month, Quarter, Semester, Full period

### Types of analysis:


-  Performance Over Time
  -  Result Distribution
  -  Most Frequent Opponents
  -  Opponent-Specific Analysis
- 


## 2.0 Exporting Data

### Why export?

- Backup
- External analysis (Excel, Google Sheets)
- Sharing with you coach

### How to export:

1. Click on  **Download Spreadsheets**
2. Choose: Match History or Opponent Registry
3. Format: CSV (compatible com Excel, Google Sheets, etc.)

 **Tip:** Use UTF-8 import with comma delimiter to open correctly in Excel.

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## Module 2: GameScope AI

### What is it?


**GameScope AI** is the analytical brain of the platform. It processes your match history and generates **personalized insights** about your performance, identifying:


- Strengths and weaknesses
- Win/loss patterns
- Challenging opponents
- Training recommendations

**⚠ Important:** The more data you record (matches and opponents), the more accurate and valuable the insights will be.

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### 2.1 Accessing o GameScope AI

1. In the main menu, click on  **GameScope AI**
2. The system will automatically load your analyses

If you haven't registered any matches yet, the system will display a message requesting data. Click on  **Go to Game History** to get started.

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### 2.2 Available Analyses

#### **Your Overall Performance**

- Total matches recorded
- Overall win rate (%)
- Current streak (consecutive wins or losses)
- Recent performance (last 10, 20, and 30 matches)

#### **Win rate interpretation:**

- $\geq 75\%$ : Excellent!
- 60–74%: Very good!
- 50–59%: Good job!
- $< 50\%$ : Keep training!

**Example:**

Overall win rate: 55%

Last 10 matches: 70%

→ You're improving!


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 **Performance Against Grip Styles**

- Penhold
- RPB (Chinese Penhold)
- Hand-Shake

**For each style:**

- Win / Losses
- Total matches
- Win rate (%)

 **Insight:** You perform better against Shake-hand (75%). Train more against Penhold to balance your game.


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 **Performance Against Rubber Types**

- Inverted
- Short Pips
- Medium Pips
- Long Pips
- Antispin

**For each type:**

- Wins / Losses
- Total games
- Win rate (%)



 **Tip:** You do well against smooth rubber (82%). Focus on training against long pips, which have been more challenging.


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### **Right-Handed vs Left-Handed Opponents**

- Win rate against each side
- Total matches

#### **Interpretation:**

- Difference < 10%: Balanced 
- Difference ≥ 10%: One side is more challenging 

 **Insight:** You perform better against right-handed players (68%). Train more against left-handers.

---


### **Performance by Opponent Skill Level**

Skill level (1 to 5):

- Beginner
- Lower Intermediate
- Intermediate
- Advanced
- Professional

#### **For each level:**

- Wins / Losses
- Total matches
- Win rate (%)

 **Analysis:** You have a 75% win rate against Intermediate level. Train more against Advanced players to progress.


---

### **Top Performances**

List of opponents with the highest win rate (minimum 5 matches):

- Name
- Grip style and rubber
- Wins / Losses / Draws
- Total games
- Set difference

- Win rate (%)

 **Tip:** Study what works against these opponents and apply it to others with similar profiles.

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### **Challenging Opponents**

List of opponents with a win rate < 40% (minimum 5 matches):

- Name
- Grip style and rubber
- Wins / Losses
- Total matches
- Win rate (%)

### **Identified Pattern:**

Your toughest opponents share the following traits: Penhold grip, Long Pips rubber.

 **Recommendation:** Focus your training on this profile to overcome the challenge.

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## Module 3: Movement Analysis





### What is it?

This module uses artificial intelligence and 3D biomechanical analysis to:

- Evaluate your technical movements
  - Compare them with a database of 29 professional players
  - Identify differences and areas for improvement
  - Provide personalized recommendations
- 

### 3.1 Techniques Analyzed

The system evaluates four fundamental techniques:

-  **FD – Forehand Drive**  
Offensive stroke with topspin on the forehand side
  -  **FP – Forehand Push**  
Control stroke with backspin on the forehand side
  -  **BD – Backhand Drive**  
Offensive stroke with topspin on the backhand side
  -  **BP – Backhand Push**  
Control stroke with backspin on the backhand side
- 

### 3.2 How to Record a Video for Analysis

#### Requirements:

- Duration: 5–10 seconds
- Framing: full body visible
- Distance: 2–3 meters from the camera
- Position: side view of the movement
- Lighting: well-lit environment, no shadows
- Background: static, no people or moving objects
- Execution: 2–3 repetitions of the same movement, with or without a ball

**Compatible devices:**

- Smartphone (front or rear camera)
- Tablet
- Webcam or external camera

 **Ideal Setup Example:**

Camera at chest height, perpendicular to the player, with a clean background.

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### 3.3 Upload and Analysis Process

1. Go to **Movement Analysis**
2. Click on the **Analyze** tab
3. Select the technique (FD, FP, BD, BP)
4. Upload the video (MP4, MOV, AVI, WEBM – up to 100MB)
5. Wait for processing (~60–90 seconds)

**System steps:**

- Body point detection
  - Movement classification
  - Cycle extraction (preparation → execution → follow-through)
  - Biomechanical analysis (50+ parameters)
  - Comparison with professionals
  - Recommendation generation
- 

### 3.4 Understanding the Results

 **Top 3 Most Similar Professionals**




Example:

1. Ma Long – 78.5%
2. Fan Zhendong – 74.2%
3. Xu Xin – 72.8%

### Detailed Comparison Table

Parameter	Your Value	Pro Value	Difference	Status
Arm speed	4.2 m/s	5.1 m/s	-0.9 m/s	⚠️
Trunk rotation	65°	78°	-13°	⚠️
Arm range	110°	115°	-5°	✅

#### Status Legend:

-  Green: Difference < 10%
-  Yellow: Difference 10–20%
-  Red: Difference > 20%

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### Personalized Recommendations

Examples:

- **Arm speed:** Train explosiveness and acceleration
- **Trunk rotation:** Work on mobility and range
- **Kinetic chain:** Synchronize hips and shoulders
- **Stroke consistency:** Keep the racket on the same plane
- **Stability:** Strengthen your core and control your center of gravity

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## 3.5 Analysis Library (My Cycles)

All analyzed videos are saved so you can:

- Track your progress
- Compare old and new versions
- Share with coaches

#### Access:

Menu → Movement Analysis → **My Cycles** tab

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## 3.6 Technique Guide (How to Use)

Includes:

- Recording requirements
  - Detailed explanations of each technique
  - Illustrative images
  - Execution tips
  - Examples of common mistakes
- 

## 3.7 Tips to Maximize Results

### ✓ Best Practices:

- Record multiple times and compare
  - Record before and after training
  - Focus on one technique at a time
  - Use the recommendations to build your training sessions
- 

### ✦ Recommendations

To get the most out of Table Tennis Pro Analyzer:

- **Be consistent:** Record every match — even training sessions and losses
  - **Register opponents in detail:** Include grip style, rubber type, and skill level
  - **Use the notes field:** Write down what worked or didn't in each match
  - **Review your analyses:** Track your progress over time
  - **Share with your coach:** The data helps build personalized training plans
-



## Module 4: Achievement System

### What is it?

Table Tennis Pro Analyzer has a gamification system that rewards your dedication and evolution in the sport with achievements and badges.

### How it works:

- Achievements are unlocked automatically when you reach specific milestones
- When an achievement is unlocked, a special animation appears on screen
- Achievements are permanently saved to your profile

## 4.1 Types of Achievements


### Game Volume Achievements:

Achievement	Requirement	Rarity
First Step	Register 1st game	<input type="radio"/> Common
Getting Started	Register 10 games	<input type="radio"/> Common
Quarter Century	Register 25 games	<input checked="" type="radio"/> Uncommon
Half Century	Register 50 games	<input checked="" type="radio"/> Rare
Hundred Games	Register 100 games	<input checked="" type="radio"/> Epic
Veteran	Register 250 games	<input checked="" type="radio"/> Legendary
Master	Register 500 games	<input checked="" type="radio"/> Legendary
Living Legend	Register 1000 games	<input checked="" type="radio"/> Mythic

### Streak Achievements (Consecutive Days):

Achievement	Requirement	Rarity
On Fire	3 consecutive days	<input checked="" type="radio"/> Uncommon
Burning Up	7 consecutive days	<input checked="" type="radio"/> Rare

Eternal Flame	30 consecutive days	● Epic
Immortal	90 consecutive days	● Mythic


 Social Achievements (Opponents):

Achievement	Requirement	Rarity
Networking	Register 5 opponents	○ Common
Socializer	Register 10 opponents	● Uncommon
Popular	Register 25 opponents	● Rare

 Victory Achievements:

Achievement	Requirement	Rarity
First Victory	Win 1st match	○ Common
Champion	Win 50 matches	● Rare
Dominator	Win 100 matches	● Epic
Rising Star	60% win rate (min. 20 games)	● Epic
Unstoppable	70% win rate (min. 50 games)	● Legendary

## 4.2 How to View Achievements

1. Go to Game History
2. Click " View Achievements"
3. You will see:
  - Unlocked achievements (colored)
  - Next achievements to unlock (grayed out with progress)

## 4.3 Streak Indicator


At the top of the Game History page, you'll see a 🔥 indicator showing how many consecutive days you've been registering games.

💡 Tip: Register at least one game per day to keep your streak active and unlock streak achievements!

## Module 5: Support TTPA




Table Tennis Pro Analyzer is and always will be free. If you appreciate the project and want to contribute to its continued development, we offer support options.

### 5.1 How to Access

- Click the " Support" button in the top menu
- Or access directly: /donate.html

### 5.2 Individual Support Options

#### PIX (Brazil):

- PIX Key: aokubo@gmail.com
- Suggested amounts: R\$ 5 (  ), R\$ 15 (  ), R\$ 30 (  ) or other amount
- Include the generated reference code in the description

#### PayPal (International):

- For donations in USD, EUR, or other currencies
- Suggested amounts: \$2, \$5, \$10 or other amount

How to donate:

1. Fill in your name (optional)
2. Fill in your email (optional - for thank you message)
3. Select or enter the amount
4. Choose if you want to remain anonymous
5. Leave a message (optional)
6. Click "Generate Donation Code"
7. Use the generated code when making PIX or PayPal payment

#### Recognition:

Supporters who don't opt for anonymity will have their names displayed on the Supporters Page with their messages of encouragement.

## 5.3 Corporate Sponsorship

### Master Sponsorship (\$100/month):

- Logo in site header
- Featured card on homepage
- Monthly social media posts
- Newsletter highlight
- 1 exclusive slot per region

### Gold Sponsorship (\$60/month):

- Logo in site footer
- Card on main pages
- Newsletter mention
- Up to 3 slots per region

How to request sponsorship:

1. Go to the Support page
2. Click the "Sponsorship" tab
3. Fill out the form with company details
4. Wait for team contact

## 5.4 What are the funds used for?

### Monthly project costs:

- Hosting (Google Cloud Run): ~\$30-60/month
- Database: ~\$10/month
- AI APIs: ~\$20/month
- Estimated total: \$60-90/month

Donations help to:

- Keep servers running
- Develop new features
- Improve GameScope AI

- Add more professionals to the database
- Keep the app ad-free

## 5.5 Supporters Page

Visit </supporters.html> to see:



- Master and Gold Sponsors
- List of recent supporters
- Encouragement messages from the community

## 6. System Access

### 6.1 New User Registration

To start using Table Tennis Pro Analyzer, you need to create an account:

#### Step-by-step registration:

1.  **Access the app's homepage** via your browser
2.  **Select your preferred language** by clicking the corresponding flag:


- BR Portuguese (Brasil)
- US English (US)
- JP Japanese (Japan)


 Note: You can change the language at any time after logging in.

3.  **Click the “Register” tab** on the login screen

4.  **Fill in the required information:**

 **Full Name**

 **Email** (used login)

 **Age** (in years)

 **County** of origin

 **Playing experience:**

- Less than 1 year
- 1 to 5 years
- More than 5 years

5.  **Skill level**

- Beginner
- Intermediate
- Advanced

6.  **Grip style**

- Penhold
- RPB (Chinese Penhold)
- Shake-hand

7. 🎯 **Rubber type:** Select one or both
  - Inverted
  - Pimpled (short/medium/long)
  - Antispin
8. 🔒 **Password** (minimum 6 characters)
  - **Confirma Password**
9. 📄 **Read and accept the privacy policy** (GDPR) - Required
10. 🚀 **Click on "Creat Account"**

### ⚠️ **IMPORTANT WARNINGS (GDPR):**

When creating your account, be aware that:

1. 📧 **Password recovery:** Only available for validated emails
  - If you don't validate your email, you cannot use the "Forgot password" function
2. 🗑️ **Data retention:** Accounts without validated email and inactive for **90 days\*** will be automatically deleted

**Recommendation:** Validate your email right after registration to ensure full access to all features

### **After successful registration:**

You will be automatically directed to the main application page and can start using immediately, even without validating the email.

> 💡 **Important:** A verification email will be sent automatically. You can validate whenever you want, but we recommend doing it soon to ensure password recovery.

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## 6.2 Login

Para acessar sua conta existente:

1. 🌐 Go to the app's homepage
2. 🌍 Select your preferred language (if needed)
3.  Keep the "Login" tab selected
4. 📄 Enter your email and password

5.  Click "Login"
- 

## 6.3 Google Login

Table Tennis Pro Analyzer now offers simplified login with your Google account, eliminating the need to create and remember passwords.

### **How to use Google Login:**

On the login or registration screen:


1. Click the "Sign in with Google" button
2. A Google window will open
3. Select your Google account
4. Authorize access (only email and name are requested)
5. Done! You are automatically logged in

### **Advantages of Google Login:**

- No need to create or remember a password
- Email automatically verified (no 6-digit code needed)
- Faster and more secure login
- Can be used for both account creation and login
- Your data is protected by Google's security

### **Important Notes:**





- If you already have an account with the same Google email, the system will automatically recognize it and log into the existing account
- You can switch between traditional login (email/password) and Google at any time
- Google only shares your name and email with TTPA - never your password

 **Attention:** The "Sign in with Google" button requires an internet connection and pop-ups must be allowed in the browser.

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## 6.4 Installing as an App (PWA)

Table Tennis Pro Analyzer is a **Progressive Web App (PWA)**, meaning you can install it as a native app on your device. This offers:

-  Faster access via a home screen icon
-  Full-screen experience without browser navigation bars
-  Offline functionality (basic features)
-  Better performance and native app feel

### **Android Installation:**

1. Open the app in Google Chrome or a compatible browser
2. Tap the browser menu (:) in the top-right corner
3. Select “Add to Home Screen” or “Install App”
4. Confirm installation
5. The app icon will appear on your home screen


### **iPhone/iPad (iOS) Installation:**

1. Open the app in Safari (required for PWA on iOS)
2. Tap the “Share” button (bottom or top bar)
3. Scroll down and select “Add to Home Screen”
4. Tap “Add” in the top-right corner
5. The app icon will appear on your home screen

### **Desktop Installation (Windows/Mac/Linux):**

1. Open the app in Google Chrome, Microsoft Edge, or a compatible browser
2. Look for the ⊕ (plus) icon in the address bar
3. Click “Install Table Tennis Pro Analyzer”
  - Or go to the menu (:) > “Install Table Tennis Pro...”

4. Confirm installation
5. The app will run as a standalone program

 **Important:** After installation, the app runs in full-screen mode without the browser address bar, offering a more immersive experience.

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## 6.5 Language Switching


The system supports two languages:

- **Portuguese (Brazil)**
- **English (US)**
- **Japanese (JP)**





### How to change the language:


During registration/login:

 Click the flag corresponding to the desired language on the login screen


 The selected language will be saved automatically when creating your account


After logging in:


1.  Locate the language selector in the top-right corner of the screen (next to user info)
2.  Click the flag of your desired language:  
  
BR for Portuguese (Brazil)  
us para English (US)
3.  The page will reload in the new language
4.  Your language preference will be saved permanently in your profile


 **Note:** Language changes affect all system pages and elements, including:

 Navigation menus

 Forms and fields

 System messages

 Buttons and instructions

 Analyses and reports

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## 6.6 Privacy Policy and LGPD






Table Tennis Pro Analyzer complies with **Brazil's General Data Protection Regulation (GDPR)**.

### **Complete Privacy Policy**

To read the complete privacy policy:




1. Access: ``/privacy-policy.html``
2. Or click the link available on the registration page
3. Available in **PT-BR** and **EN-US**


### **Your rights:**

-  **Transparency:** All data collected is disclosed during registration
-  **Purpose:** Your data is used exclusively to:
  - Personalize your app experience
  - Provide technical analysis based on your profile
  - Improve system features
-  **No sharing:** Your data is not shared with third parties
-  **Deletion:** You may request full data deletion at any time
-  **Security:** Passwords are stored using encryption (bcrypt hash)

### **How to Delete Your Data:**

You have the right to delete all your data at any time:

1. Access  **My Profile**
2. Scroll to " **Danger Zone**" section
3. Click " **Delete Account Permanently**"
4. Confirm deletion (irreversible process)

>  **Attention:** Account deletion is **permanent and irreversible**. All your data will be deleted:

- Game history
- Registered opponents
- Analysis videos
- Statistics
- Profile

## Collected Data

### 1. Registration Data:

- Email, name, age, country

### 2. Profile Data:

- Playing style, rubber type, dominant hand, level

### 3. Usage Data:

- Game history, opponents, statistics




### 4. Videos:

- Training videos for technical analysis (may contain face/image)

## Important: Biometric Data

**Videos containing your face are considered sensitive biometric data under GDPR.**

By uploading videos, you:




-  Confirm you have authorization to use the video
-  Agree the video will be processed only for technical movement analysis
-  Understand you can delete your videos at any time


## Data Retention

- **Accounts without validated email:** 90 days of inactivity → automatic deletion
- **Accounts with validated email:** 24 months of inactivity → deletion after email notice

## User responsibility:

You are solely responsible for the integrity, security, and preservation of the data you enter. The system is not liable for:

-  Accidental data loss
-  Unintentional deletions
-  Temporary technical failures

 **Recommendation:** Make regular backups using the system's export functions (CSV, spreadsheets).

## 6.7 Free Plan

When you create your account, you automatically receive the **Free Plan**, which includes:

- ✓ 3 saved videos for movement analysis per month 🎥
- ✓ Comparison with professional players (access to pro database) 🏆
- ✓ Unlimited match history recording 📊
- ✓ Full GameScope AI insights 🎯
- ✓ Detailed charts and statistics 📈
- ✓ Opponent management 👤
- ✓ Data export (CSV, spreadsheets) 📄

🚧 The system is under continuous development, and new features will be added regularly.

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## 6.8 Common Issues and Solutions

### ✗ "I can't login"

- Check if the email is correct (same as used during registration)
- Make sure the password has at least 6 characters
- Ensure you have an internet connection
- Try clearing your browser cache

### 🔑 "I forgot my password"

⚠️ **IMPORTANT:** Password recovery only works for validated emails.

If you **did not validate your email:**

- Contact support: aokubo@gmail.com

If you **validated your email:**

- Use the "Forgot password" function on login screen

### 🕒 "The app isn't loading"

- Check your internet connection 🌐
- Reload the page (F5 or Ctrl+R) 🔄
- Clear your browser cache 🧹
- Try a different browser (recommended: Chrome, Edge, Safari) 🌐

 **"I can't install the PWA"**

- **Android:** Use Chrome, Edge, or a compatible browser
- **iOS:** You must use Safari (other browsers don't support PWA on iOS) ⚠
- **Desktop:** Use Chrome or Edge (Firefox has limited support)

## 7. ? FAQ –Frequently Asked Questions

### 1. Do I need to pay to use the platform?

**No.** Basic use is free. Advanced features may have additional plans in the future.

### 2. Can I use on any device?

**Yes.** The platform is compatible with computers, tablets and smartphones.

### 3. Is my data secure?

**Yes.** All information is protected and used only to generate personalized analysis. See our [Privacy Policy](#privacy-policy-and-gdpr).

### 4. Can I delete my data?



**Yes.** You can delete games, opponents or your complete account at any time through the profile.

### 5. What happens if I don't register opponents?

The system still works, but insights will be limited. Registering opponents is essential for more accurate analysis.

### 6. Do I need to validate my email?

**Not mandatory** to use the system, but **highly recommended** because:

-  Allows password recovery
-  Avoids automatic deletion after 90 days of inactivity

### 7. How does movement analysis work?

The system uses **artificial intelligence (MediaPipe)** to detect body keypoints and compare your movements with a database of 29 professional players, generating personalized recommendations.


### 8. What is the TTPA Code?

The **TTPA Code** (Table Tennis Pro Analyzer) is a unique and personal code that each user receives when creating an account. It allows:


- **Share your data** with other players
- **Import opponents** automatically without manual typing
- **Keep data synchronized** - when opponent updates profile, you see automatically

**Example:** If your code is "John01", you can share with your opponents so they can import you instantly.

### 9. Where do I find my TTPA Code?



1. Log in to the system
2. Click  **My Profile**
3. Your TTPA code appears highlighted at the top of the page
4. Example: "John01"

### 10. How do I import an opponent using TTPA Code?

1. Access **Game History** → **Register Opponent**
2. At the top of the form, see the purple section: "  **Import by TTPA Code**"
3. Enter opponent's code (e.g., "Mary23")
4. Click "**Import**"
5. Done! All data imported automatically

### 11. What happens if I import a code of someone already on my list?

The system will show two options:

-  **Reconnect:** Keeps existing games and updates data
-  **Create New:** Creates a second opponent (useful if they are different people with the same name)


### 12. Can I import my own TTPA code?

**No.** The system doesn't allow importing your own code to avoid duplication.

### 13. Can I log in with my Google account?

Yes! Click "Sign in with Google" on the login or registration screen. Your email will be automatically verified and you won't need to create a separate password. If you already have an account with the same email, the system will log into the existing account.

### 14. How does voice game registration work?

Click the "  Register by Voice" button in Game History. The system will guide you through 7 steps: date, opponent, result, score, location, observations, and confirmation. Works in Portuguese, English, and Japanese.

### 15. What are Favorite Locations?

These are places where you frequently play. You can save them with aliases to facilitate voice recognition. For example, save "Downtown Sports Club" with the alias "downtown".

### 16. How do achievements work?

The system rewards your progress with badges/achievements. They are automatically unlocked when you reach milestones like number of games, day streaks, registered opponents, etc. Access "🏆 View Achievements" to see your progress.

**17. Is the app available in Japanese?**

Yes! In addition to Portuguese and English, TTPA now supports Japanese (日本語). Click the Japan flag JP to change the language. The voice system also recognizes Japanese.

**18. How can I support the project?**

Click "👉 Support" in the menu. You can donate via PIX (Brazil) or PayPal (international). Companies can request sponsorship. All non-anonymous supporters appear on the Supporters Page.

**19. What happens with my day streak?**

The system counts how many consecutive days you've registered games. If you skip a day, the streak resets to zero. Keep your streak to unlock achievements like "On Fire" (3 days) and "Immortal" (90 days).

**20. What is the "Furigana" field when registering a Japanese opponent?**

Furigana is the hiragana reading of the Japanese name. This helps the voice recognition system understand when you speak the opponent's name in Japanese.

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## 8. ⚠️ Disclaimer - Data Responsibility

This app was developed to provide technical and analytical support to table tennis players. However, the responsibility for the integrity, security, and preservation of entered data lies solely with the user.

The app team is not responsible for losses, accidental deletions, technical failures, or any other type of data unavailability. We strongly recommend that users perform regular backups of their registered information, especially match history, opponents, and performance analyses.

Continued and safe use of the platform depends on individual care with your own records. By using this app, you acknowledge and accept these terms.

### Technical Information

#### System Architecture

##### Backend:

- **Framework:** FastAPI (Python 3.10)
- **Server:** Google Cloud Run (containerized)
- **Database:** SQLite with automatic backup on Google Cloud Storage
- **Authentication:** JWT (JSON Web Tokens) with bcrypt
- **Email:** SendGrid for sending verifications




##### Frontend:

- **Technology:** Vanilla JavaScript (no frameworks)
- **PWA:** Progressive Web App with offline support
- **Internationalization:** i18n system (PT-BR and EN-US)
- **Charts:** Chart.js for visualizations

##### Video Analysis:

- **AI:** MediaPipe for 3D pose detection
- **Processing:** OpenCV for video manipulation
- **Comparison:** Similarity algorithms with 28 biomechanical parameters
- **Database:** 29 professional players

##### Security:

-  **HTTPS:** Encrypted communication
-  **Passwords:** Bcrypt hash (cost factor 12)
-  **Tokens:** JWT with 7-day expiration

-  **Cloud Storage:** Data stored in private Google Cloud bucket

**Backup and Synchronization:**

- **Automatic:** Synchronization with Google Cloud Storage after each operation
- **Frequency:** Immediate in production
- **Location:** `gs://tennis-analyzer-user-cycles/database/`

**Technical Limits:**

- **Videos:** Maximum 100MB per upload
  - **Duration:** 3-30 seconds per video
  - **Formats:** MP4, MOV, AVI, WEBM
  - **Analysis:** 3 saved videos per month (free plan)
-

## 9. Closing Statement

**Table Tennis Pro Analyzer** is more than a tool — it's a partner in your sports journey. By recording your matches, analyzing your movements, and understanding your opponents, you turn every game into an opportunity for growth.

**Table Tennis Pro Analyzer**  
**Play. Record. Evolve.**

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## 10. Support and Contact

If you have questions, suggestions, or need help:

- E-mail: [aokubo@gmail.com](mailto:aokubo@gmail.com)