

TOMÁS MENEZES PEREIRA

Founder, Fullstack and ML Engineer with 5+ years of experience developing AI systems, leading tech teams, and building data-driven solutions that create measurable business outcomes. Recently co-led an 8-figure real estate project exit.

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EXPERIENCE

FOUNDING PARTNER, 2B2 INVESTMENTS

2021 – PRESENT

Lisbon, Portugal

Fullstack Product Development

Developed and sold (B2B) digital tools to automate and improve real estate data aggregation, processing, and analysis, saving new development project teams 150+ hours per month, increasing project throughput by 40%+:

- AI SDK agents for automated workflows, including top-N project retrieval and comparison, with online data hydration via generated search queries, marketing copy generation, and data distribution to 10+ project managers;
- New development data intelligence app based on multi-region, proxy-enabled scrapers, with historic property data analysis, realtime KPIs, CDC detection, and notifications, unlocking access to actionable insights;
- Automation pipelines, integrating data analysis results directly into the team's workspace, reducing manual analysis efforts by 50%+;

Stack: NextJS (main fullstack app framework), Vercel (hosting, CI/CD), AI SDK (agentic workflows and generative modules), Supabase (Postgres backend and auth), Stripe (payments), Trigger.dev (robust background python scraping and util cron jobs), AWS (API Gateway for scraper proxy, S3 for storage), N8N (other automation pipelines), Linear (project management), Pandas (data analysis).

Strategic AI Consulting

- Advised C-Suite executives at two of Portugal's largest real estate companies on the creation of internal tech, data teams, and innovation, creating long- and short-term data and AI strategy roadmaps;
- Guided teams on the creation of proprietary internal ML systems, including multi-objective AVMs, data unification strategies, and data analysis workflows for market opportunity identification and reporting;

Real Estate Development

- Co-led the development of a 17-unit residential development integrated into a farm estate in Greater Lisbon, Portugal, coordinating contractors and architects, leading digital development, developer partnerships and investor fundraising;
- Successfully closed the project's sale, more than doubling the original estate value;
- Currently managing a pipeline of 2 high-value projects, including the development of a multi-villa gated condominium;

PRODUCT MANAGER, UNTERNEHMERTUM

2021

Munich, Germany

- Led a team of 3 engineers and 2 designers, working alongside UTUM's core team, to build an open data request platform MVP for the city of Munich, improving data access over the closed-access model in production;
- Prepared and conducted 20+ problem interviews, usability tests, and experiments with Landeshauptstadt officials, city representatives, open data advocates, open source developers, executives of Munich-based enterprises;
- Oversaw the agile (Scrum) product development process, from design thinking ideation, pain point mapping, prioritization, opportunity testing, user story creation to prototype implementation and product delivery;
- Facilitated connections within city hall stakeholders and with external enterprises, generating requirements and lists of in-need data;

Stack: Miro (interactive team boards), Jira (project management), Webflow (web prototyping), Zapier (prototype automations), Figma (design).

- Researched deep learning recommender systems for sparse session-based environments;
- Built and benchmarked multiple recurrent (LSTM, Bi-GRU) architectures with Tensorflow, to model user intent through session activity with short and long-term context for impression ranking;
- Created self-attention modules enabling skip-behavior awareness, increasing recall and interpretability via relative sequential event importance modeling;
- Developed a hybrid Bayesian Optimization with Gaussian Processes (sci-kit learn) and Random Hyperparameter Search pipeline suitable for high-dimensional conditional spaces;
- Applied the developed structures to achieve an 85th percentile result in predicted MRR in the 2019 ACL RecSys Challenge, with compute limited to a single Google Colab GPU instance, without the usage of time-leaking features;

PROJECTS

SESSIONBLOCKS (ALPHA)

2024

sessionblocks.com

- Created a tab management browser extension for power users, locally handling large sessions with thousands of items;
- The extension allows users to organize tabs with bulk operations (move, delete, suspend), save and persist windows, seamlessly drag and drop items between open and closed windows, filter and find items and duplicates, and export and import local sessions;

Stack: Plasmio, Zustand (state, storage sync), Supabase (auth), Stripe (payments), NextJS (server), Vercel, Google Analytics.

TECH SKILLS

- **Languages:** JavaScript/TypeScript, Python, SQL, MATLAB
- **Frameworks, Libraries:** React, Tanstack (Start, Router, Query, Table), SWR, Vite, NextJS, AI SDK, Zod, Zustand, Drizzle, Deck.gl, Plasmio, WXT, TensorFlow, scikit-learn, Pandas, Jupyter, Motion, BullMQ
- **Databases:** PostgreSQL, Firebase, Redis
- **Platforms, Tools:** Vercel, Supabase, AWS, GCP, Docker, Trigger.dev, Stripe, Linear, Jira, N8N, Zapier, Figma, Git

EDUCATION

MSc SYSTEMS ENGINEERING, IST

GRAD 2021

Excellence diploma 16/20, Dissertation 18/20

Autonomous and Intelligent Systems, Reinforcement Learning, Optimization and Decision, Computer Vision, Systems Identification

ADV MSc ARTIFICIAL INTELLIGENCE, KU LEUVEN

GRAD 2018

Leuven, Belgium

Artificial Neural Networks and SVMs, Data Mining, Brain Computer Interfaces, Text-based Information Retrieval

ADDITIONAL EXPERIENCE

- **Startup Jumpstart, Babson:** Awarded a Santander scholarship for the executive entrepreneurship programme.
- **European Innovation Academy:** Managed a team of four, winning a Nixon Peabody award with an online micro-task platform.
- **National Robotics Team Leader:** Led the Portuguese team in four worldwide RoboCup competitions (Singapore, Istanbul, Eindhoven, João Pessoa); Designed autonomous rescue robots and mentored 50+ students.