PEDRO VELOSO

STUDENT OF A MASTER'S PROGRAM IN SOFTWARE ENGINEERING

PROFILE

I value continuous learning, adaptability, and a strong work ethic. I take initiative and work effectively within a team, maintaining a positive attitude even when facing challenges. I am committed to contributing meaningfully to organizational goals while actively developing my skills and expertise.

SKILLS

- Teamwork
- Time Management
- Effective Communication
- Strategic Thinking

HOBBIES

- Tennis
- Calisthenics

LANGUAGES

- English (fluent)
- Spanish (basic)

CONTACT

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📍 Porto, Portugal

EDUCATION

Master in Software Engineering 2024 - Present
Faculty of Engineering | University of Porto

Bachelor of Informatics and Computing Engineering 2019 - 2024
Faculty of Engineering | University of Porto
Final Grade: 14 / 20

Sciences and Technologies 2016 - 2019
Escola Secundária Camilo Castelo Branco
Final Grade: 17 / 20

WORK EXPERIENCE

FEUP & Shortcut Lda. (WATT Platform) 09 / 2025 - Present
Master's Thesis — Predictive Models for Energy Market Analysis & Contract Renegotiation Support

- Built day-ahead & intraday price/load forecasting with walk-forward CV using LightGBM/Prophet/SARIMAX; probabilistic outputs via quantiles.
- Designed a contract-decision engine: simulate fixed vs. indexed tariffs (spreads, capacity, penalties) and optimize renegotiations by cost–risk.
- Production data pipeline: OMIE + weather ETL with validation into PostgreSQL; forecasts/decisions served via FastAPI REST.
- MLOps: Dockerized services, GitHub Actions CI/CD, MLflow experiment tracking, DVC data/model versioning, drift/health monitoring.
- Explainability & governance: SHAP/standardized coefficients; KPIs (RMSE, MAPE, pinball loss) with alerting on deviations.

NOS Porto 12 / 2021 - 05 / 2022
Internship as a Junior Full Stack Developer

Technologies used:
- Microsoft SQL Server (MSSQL)
- ASP.NET
- Angular

TECHNICAL SKILLS

- **Programming Languages:** Java, Python, C, C++, JavaScript
- **Web Technologies & Frameworks:** HTML5, CSS3, React, Django, Angular, Node.js, ASP.NET
- **Databases & Data Management:** PostgreSQL, MySQL, Microsoft SQL Server (MSSQL)
- **DevOps & Cloud:** Docker
- **Tools & Version Control:** Git, VS Code, IntelliJ IDEA
- **Testing & Quality Assurance:** JUnit, Jest