

Mario Mendoza

+34 645 175 034 | mendozachaparro73@gmail.com | linkedin.com/in/mariomendoza19 | github.com/Mendo-005

EDUCATION

Ciudad Escolar

Multiplatform Application Development, Minor in Software Development

Sep 2024 – Jun 2026

Madrid

EXPERIENCE

Software developer

Tabacalera SLU

Jun 2025 – Aug 2025

Madrid, Spain

- Led the design and development of a custom Artificial Intelligence project aimed at automating and optimizing processes in a factory setting.
- Engineered and implemented specialized machine learning models to enhance manufacturing efficiency, reduce manual intervention, and improve productivity
- Collaborated with cross-functional teams to integrate intelligent automation solutions with existing industrial hardware and software systems.
- Played a key role in a strategic initiative to drive digital transformation and innovation within the company's manufacturing operations.

Internship

Tabacalera SLU

Mar 2025 – Apr 2025

Madrid, Spain

- Streamlined the company's file and folder management system, improving data accessibility and organization.
- Optimized ETL workflows and enhanced the efficiency of existing Python scripts, reducing processing time.
- Developed a proof-of-concept AI project designed to automate and optimize internal operational processes.

Ambassador

Timestamp

Oct 2025 – Present

Madrid, Spain

- Designed and coordinated talent-attraction programs (internships, placements, hackathons, and targeted recruitment processes for technical profiles).
- Built and managed strategic partnerships with faculties, departments, and student organizations to attract talent and foster academic collaboration.
- Monitored and reported impact metrics (event attendance, candidate pipelines, and conversion to hires) to optimize programs.

PROJECTS

Financial News Sentiment Prediction | Python, yfinance, pandas, numpy, matplotlib, NewsAPI Jun 2025 – Jun 2025

- Implemented end-to-end pipeline: historical price download (yfinance), news retrieval (NewsAPI), sentiment scoring with FinBERT, daily aggregation, signal generation and backtesting.
- Developed a rule-based trading signal: standard MA crossover (40/100 days) adjusted to avoid buys when daily sentiment is strongly negative (sentiment < -0.2).
- Simulated portfolio using full-capital entries/exits, produced time-series of portfolio value and compared final return to buy & hold.
- Automated outputs and documentation: exported portfolio.csv and data_with_sentiment.csv and provided visualization of strategy vs. buy & hold.
- Made parameters configurable (ticker, date range, MA windows, sentiment threshold), enabling easy replication and extension.

Price Movement Prediction | Python, yfinance, XGBoost, scikit-learn, pandas, numpy, matplotlib Jul 2025 – Jul 2025

- Implemented end-to-end data pipeline (obtener_datos.py) to download historical prices and compute indicators: RSI, MACD (+signal), Bollinger Bands and 1–3 day lagged returns.
- Engineered target variable (next-day up/down) and split data with time-series-aware train/test separation to avoid look-ahead bias.
- Trained and tuned an XGBoost classifier (train.py), produced evaluation metrics (accuracy, confusion matrix, precision/recall/F1).
- Visualized feature importance and simulated a trading strategy (visual_xgboost_estrategia.py): ML strategy invests when model predicts up; compared portfolio growth vs. buy & hold.

TECHNICAL SKILLS

Languages: Python, Java, SQL, C#, Bash, JavaScript, HTML & CSS

Frameworks: Flask, Spring Boot

Developer Tools: Git, Github, Gitlab, Docker, Linux, Windows, AWS, Salesforce, Terraform

Libraries: Tensorflow, PyTorch, NumPy, Scikit-learn, Matplotlib, YOLO, Hugging Face