

# Vasco Jesus

Software Engineer

Lisbon, Portugal

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*Software Engineer with 2+ years building production ML systems and data pipelines. Experienced in Python, Django, FastAPI, PySpark, and AWS. Strong background in both backend engineering and AI/ML.*

## AREAS OF EXPERTISE

- Python (Pandas, Numpy..)
- Django, FastAPI
- SQL
- Apache Spark
- ML (TensorFlow/PyTorch)
- Git
- AWS (EC2, S3)
- Docker
- CI/CD

## PROFESSIONAL EXPERIENCE

### Bank of Portugal

Software Engineer

Lisbon, Portugal

Jan. 2024 – Now

- Led development of a large-scale **ETL** pipeline, feeding an AML/BCFT risk-scoring ML model that improved detection accuracy - deployed at national scale under Banco de Portugal supervision.
- Developed and deployed **NLP models** to assist regulatory compliance and legal teams in parsing and interpreting financial regulation and law documents, reducing manual review effort and accelerating decision-making for compliance workflows.
- Architected and maintained internal compliance web applications using **Django** and **FastAPI**, enabling bank supervisors to manage regulatory data across multiple teams, reducing manual processing time and improving operational efficiency at scale.
- Designed and shipped **CI/CD pipelines** using **GitHub Actions** and **Docker**, cutting release cycle time and eliminating manual deployment steps across production services.
- Built and optimised data workflows using **PySpark**, **SQL**, and **MongoDB** for feature engineering, model training, and high-volume scoring, ensuring reproducibility, data quality, and compliance traceability.

## EDUCATION

### ISCTE – Instituto Universitário de Lisboa

MSc in Data Science

Sep. 2022 – Sep. 2024

- Designed and implemented a **transformer-based time-series forecasting model** using **PySpark** integrated with **AWS EC2 and S3**, reducing prediction error by **~15%** vs baseline models (19/20 GPA).

### Universidade Lusíada de Lisboa

BSc in Computer Science

Sep. 2019 – Jun. 2022