João Neves

🖨️ Contacts

LinkedIn | **X/Twitter** | **Github** | **Website** | **Email**

🧑‍💻 Professional Experience

Advanced Software Engineer @ Feedzai, Lisbon *(February 2024-Present)*

Conduct cutting-edge research in computer systems, including operating systems, distributed systems, and networked systems.

- Design and develop company-wide Machine Learning systems

- Collaborate with cross-functional teams to integrate research findings into practical applications and products.
- Publish research findings in top-tier conferences and journals.
- Stay updated with the latest advancements in systems research and incorporate relevant technologies into ongoing projects.
- **Technologies used**: Docker, Kubernetes, Kafka, Quarkus, Flux, Java

Senior ML Engineer @ Farfetch, Lisbon *(June 2022-February 2024)*

Design and implement **recommendation systems** to improve the User experience in the Marketplace

- Successfully collaborated on developing a virtual assistant by leveraging LLMs for prompt engineering and effectively deploying it as an API.
- Proficiently contributed to implementing and optimising a Vector Search Engine (Vespa) to enhance recommendation systems.
- Design and implement recommendation systems to improve the User Experience
- Produce resilient, high-available and scalable systems to host ML models (e.g., APIs).
- Support ML development by implementing Data Engineering systems
- **Technologies used**: Large Language Models (LLM), MLflow, PySpark, Pandas (Software), Kafka, Kubernetes, Azure Databricks, Airflow, Python, Flask

Lead Tech Engineer & ML Engineer @ Siemens, Lisbon *(January 2019-June 2022)*

Design and implement detection and analytics **cloud-based ML systems for CyberSecurity**

- In-house MLOps framework development
- Automation frameworks for clients
- Phishing analytics platform
- Malware detection engine
- Data Lake query costs optimization system
- **Technologies used**: AWS Cloud Services, Git, PyTorch, Python, Scala, Serverless Framework, Spark, Terraform

Data Scientist/Data Engineer @ Marionete, Lisbon *(October 2016–December 2018)*

Design and implement Machine Learning use cases

- Documents indexation with search capabilities for compliance (**Technologies used**: AWS Cloud Services, Elastic Search, Python)
- Platform to match conference attendants (**Technologies used**: Heroku, Jenkins, Python, Pandas)
- Malware detection engine (**Technologies used**: AWS Cloud Services, Keras, Python, Scala, Spark)
- Partner trainer certified by Cloudera

Software Engineer @ SISCOG, Lisbon *(September 2013– September 2016)*

Model the domain of processes of planning railroad resources

- Intensive brainstorming of functionalities with the product managers
- Part of a development team for a new product with recent clients
- **Technologies used**: Lisp, ACL

🎤 Public Speaking

- Big Things Conference - **From euros to zero: using Probabilistic Data Structures to reduce costs**, Madrid *(November 2020)*
- MXNet Deep Learning Meetup - **AI vs Malware: Threat Intelligence @ Work**, Berlin *(February 2019)*
- Seminário Diagonal IST - **Variable Selection in Football Squads**, Lisbon *(November 2011)*

📚 Education

- **Master (MSc) in Mathematics and Applications (Probabilistic and Statistics)** @ Técnico, Universidade Técnica de Lisboa, Lisbon *(2011-2013)*
- **Degree (BSc) in Applied Mathematics and Computation** @ Técnico, Universidade Técnica de Lisboa, Lisbon *(2007-2011)*

📜 Master Thesis

- **Title**: The effect of an imperfect ground-truth in the evaluation of the performance of classifiers
- **Supervisors**: Prof. Maria do Rosário Oliveira
- **Description**: Link

⌨️ Programming Skills

Name	Level	Scope
Python	🟢 Advanced	Daily basis usage
Java	🟢 Advanced	Daily basis usage
Scala	🟡 Average	Used in previous projects
SQL	🟡 Average	Used in previous projects
R	🟡 Average	Main language used in University
Rust	🔴 Amateur	Only reading skills
HTML	🔴 Amateur	Only reading skills
CSS	🔴 Amateur	Only reading skills
JavaScript	🔴 Amateur	Only reading skills
C	🔴 Amateur	One academic project

🌎 Languages

Lang	Level	Scope
Portuguese	Proficient	Native
English	Upper-intermediate	Working language

🎨 Interests

- 🎮 Games: Playing games is an excellent way to relax
- ⚽ Football: Everything

- 📺 Audiovisual Art: Films and TV Shows