SOBHAN FOOLADI MAHANI

DATA ANALYSIS | R&D ENGINEER

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SUMMARY

Master's student in Deep Learning and Big Data at Universitat Politècnica de Catalunya with hands-on experience in building data pipelines, deploying machine learning models, and developing backend systems. Delivered real-time EMG signal analysis tools with 94% classification accuracy and improved signal processing speed by 30%. Skilled in Python, Flask, and data visualization, with experience developing microservices and analytics dashboards. Passionate about combining research, development, and data-driven insights to solve real-world problems. Eager to contribute analytical thinking, technical expertise, and creativity in a data analyst internship within a collaborative and impact-oriented environment.

TECHNICAL SKILLS

- **Programming Languages:** Python, Bash, JavaScript
- **Data Analysis & Machine Learning:** Pandas, NumPy, Scikit-learn, Matplotlib, OpenCV, MediaPipe
- **Web Development & APIs:** Flask, RESTful API design
- **Tools & Platforms:** Git, Linux, UML Modeling, Jupyter, VS Code
- **Concepts & Techniques:** Signal processing, statistical modeling, supervised learning, classification, data visualization
- **Other:** Document workflow automation, performance optimization, software architecture

PROFESSIONAL EXPERIENCE

Backend Developer & R&D Engineer

Imaz Tech - Barcelona, Spain | Jul 2023 - Present

- Developed and maintained Flask-based APIs supporting ML pipelines for real-time data processing.
- Applied signal filtering techniques to improve EMG muscle activation accuracy by 30%
- Built AI-driven classification models for motion analysis (achieved 94% accuracy)
- Collaborated with frontend teams to implement data visualizations and system workflows
- Created a dedicated microservice for generating human exercise analytics reports.

Software Engineer / Technical Product Owner

SaminCoin | Oct 2021 - Jan 2023

- Designed and implemented RESTful APIs using Python and Django
- Created UML models and collaborated with UI/UX teams to design scalable systems
- Worked closely with stakeholders to define workflows aligned with product goals
- Managed product roadmaps and sprint planning, contributing to a 40% faster delivery of key features

EDUCATION

Master's in Telecommunications   **Feb 2023 - Present**

Universitat Politècnica de Catalunya (UPC), Spain | Feb 2023 — Present

- **Specialization:** Deep Learning and Big Data Analysis
- **Key Courses:** Machine Learning (9/10), Software Architecture (8/10), Entrepreneurship (8/10)
- **Skills Gained:** data analysis, machine learning, large-scale data processing, software design

Bachelor's in Information Technology   **Sep 2015 - Aug 2020**

Azad University | Sep 2015 — Aug 2020

- **GPA:** 7.7 / 10
- **Key Courses:** Database Management, Data Structures and Algorithms, Programming Fundamentals

ADDITIONAL INFORMATION

- **Languages: English (Fluent, IELTS Certified), Spanish (A1)**
- **LinkedIn:** linkedin.com/in/sobhan-fooladi-mahani
- **Work Authorization: Eligible to work and intern in Spain**
- **Interests:** Data Analysis, Research & Development, Software Engineering, Machine Learning, Real-World Applications of AI
- https://sobhan-fld.github.io/cv/