Daniel Suarez-Mash

Senior Data Scientist

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GitHub: https://github.com/danielsuarez-mash
Hugging Face: https://huggingface.co/danielsuarez-mash

PROFILE

Experienced Senior Data Scientist with a proven track record
in developing and optimising machine learning models, leading cross-functional teams, and delivering data-driven solutions in complex environments. Skilled in Python, PowerBI, and AWS, with a strong focus on innovation, automation, and continuous improvement across multiple domains.

EXPERIENCE

Senior Data Scientist — 12/2021 - Present

- Enhanced core data science skillset by completing the ONS Data Science Graduate Programme (2021-2023), focusing on advanced machine learning techniques.

- Spearheaded a 6-month project to develop a scalable and reproducible analytical pipeline, optimising feature retrieval and engineering for large datasets, ensuring data integrity and efficiency in high-stakes environments. I earned Home Office's Performance Excellence Award for this work.

- Advanced to Senior Data Scientist within 12 months, overseeing the full lifecycle of ML product development, including MLOps, model deployment, and performance optimisation, ensuring adherence to business goals and regulatory requirements.

- Re-trained ML model for triaging marriage applications, innovatively using recall at K to optimise threshold selection, enhancing performance by 15% while adhering to stakeholder guidelines.

- Oversaw learning and development initiatives within the data science team, using Jira to manage a kanban board, and organised presentations, fostering a culture of continuous improvement and innovation. This involved leading a 3-hour in-person workshop for a team of 30, utilising case studies and interactive activities to generate innovative project ideas, earning a Performance Excellence Award.

- Created a user-friendly PowerBI dashboard to monitor an ML model, incorporating customer feedback and using a bookmark-button technique for enhanced data visualisation.

- Directed a team in the application of time-series techniques to immigration data, enabling accurate 12-month applicant volume forecasts, helping departments make staffing plans ahead of time to save on costs.

- Assembled and led a team to explore the use of large language models within the Home Office. Used Streamlit, LangChain and HuggingFace to build an application showcasing the strengths and weaknesses of retrieval augmented generation and agents. Available on my HuggingFace profile.

Private Mathematics Tutoring — 08/2017-Present

- Provided over 3000 hours of tuition to levels ranging from primary school to university.

- Adapted teaching style to accommodate different learning preferences, including students with learning disabilities such as dyslexia and dyscalculia, showcasing flexibility and student-centric approaches.

- Developed personalised learning plans using Notion to monitor individual student progress, resulting in significant improvements in their academic performance.

- Achieved a high satisfaction rate, reflected in over 30 five-star reviews on tutoring profile, highlighting the effectiveness and quality of tutoring provided.

EDUCATION

- Coventry University — MSc Electrical Automotive Engineering - Distinction & Best Student
  - Classifying Symbolic Road Markings using deep NNs, published in the European Union Digital Library
  - Power Semiconductor Devices and Converters (97) - highest out of cohort
- City, University of London — BSc Mathematics with Finance and Economics - 1st Class
  - Vector Calculus (100), Finance and Financial Reporting A (66.5), Finance and Financial Reporting B (70.6)

SKILLS

Python, PowerBI, AWS cloud services, MLOps, Version Control, SQL

AWARDS

- Faculty award for Best Student in MSc Electrical Automotive Engineering
- PostGraduate Taught Academic Excellence Scholarship from Coventry University, 2020
- City, University of London Scholarship Programme, 2016- 2019
- Professional Consulting (Level 7 award) - Chartered Management Institute (CMI)
- Strategic Management and Leadership (Level 7 Certificate) - CMI