CURRICULUM VITAE

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Profile & Skills

Data Scientist & Machine Learning Engineer (MSc) with 4 years of experience across the full software and machine learning lifecycle. Specialized in building end-to-end solutions, including scalable data pipelines, model training and deployment, and API integration using Flask and FastAPI. Proven track record of delivering production-ready ML pipelines and KPI dashboards that improve model generalization and development speed.

Technical Skills:

- **Programming & APIs:** Python (Flask, FastAPI), R, SQL, RESTful APIs, C#, ASP.NET, Java
- **Data Science & Analytics:** Pandas, NumPy, scikit-learn, PySpark, deep learning (PyTorch, TensorFlow), graph neural networks (PyG), feature engineering
- **DevOps, MLOps & Delivery:** Docker, Git, CI/CD with GitHub Actions, model deployment & monitoring, Agile (Scrum/Kanban), Jira, Trello
- **Cloud Platforms:** AWS (Lambda, EC2, S3, DynamoDB, SageMaker); skills transferable to Azure
- **Visualization & BI:** Matplotlib, Seaborn, Plotly, Tableau, Excel, Word; KPI dashboards and data storytelling
- **Operating Systems:** macOS, Windows, Linux

Work Experience

Machine Learning Engineer (Software Developer) — Azaries, Guildford, UK: Aug 2024 – Aug 2025

- Developed and executed Amazon SageMaker Pipelines across 20+ real-world datasets, including NHS service demand and customer churn, for model training, evaluation, and comparison.
- Built reusable end-to-end ML pipelines (PyTorch, scikit-learn, PySpark, PyG) for classification and regression, incorporating unit and integration tests, data validation, CI/CD, MLflow tracking, production monitoring, and standardised JSON-based outputs for downstream systems.
- Implemented production-grade MLOps practices, including data validation, automated testing, CI/CD pipelines, MLflow experiment tracking, and post-deployment monitoring.
- Translated model outputs into actionable insights using feature importance, community and centrality analysis, link prediction, and SHAP/Permutation tests, informing data quality improvements and decision-making.
- Built KPI dashboards for stakeholders (accuracy, precision, recall, F1-score, ROC-AUC) using Tableau and Plotly, consuming model outputs serialised in JSON.
- Fine-tuned a Hugging Face Transformer to verbalise structured rules and model outputs, improving interpretability and explainability.
- Participated in sprint planning, refinement, and reviews; used Jira/Trello for backlog management, prioritisation, and progress reporting.

Software Developer — Boland Afarin Eram Co, Shiraz: Feb 2020 – Feb 2023

- Built and deployed ETL pipelines and predictive models for churn prediction, demand forecasting, risk assessment, and personalisation using structured business data.
- Performed exploratory data analysis and engineered SQL- and JSON-based data pipelines to support analytics and machine learning workflows.
- Delivered data-driven insights through dashboards and reports, directly supporting operational and strategic decision-making.
- Developed backend services and applications using Python and scikit-learn, integrating machine learning outputs into production systems.
- Created web applications using C#, ASP.NET, Microsoft SQL Server, and MySQL.

Projects

• Business analytics on a real-world business dataset – Performed using R.Github

• LLM project: RoBERTa/LSTM for NER & Text Classification (PyTorch) —CI/CD with GitHub Actions.Github

• Created a unified preprocessing pipeline for diverse data to automate ML data preparation. Github

• Built a cost-aware stock market analysis platform using AWS Lambda, EC2, S3 APIs, CloudFormation, Elastic Load Balancing (ELB), achieving ~15% reduction in compute costs. Github

• Dissertation: Fog-Robust Vehicle Detection (MSc) — Applied YOLOv8 on foggy images; improved mAP by +5.8% vs baseline. Github

Education

MSc Data Science with Merit — University of Surrey, Guildford, UK (2023–2025)

BSc Computer Engineering (Software) — Shiraz Azad University (2016 – 2019)

Publication:

Co-author, “Integrating Language Models into Inductive Logic Programming: Enhancing Knowledge Integration and Human-Centric Explainability,” accepted for presentation at IJCLR 2025, University of Surrey.

All reference available as request.