

# SEYED ALI SHAHEBRAHIMI

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Portfolio: <https://main.d5jz7k0ctuba.amplifyapp.com/>

## PROFILE

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

## SKILLS

- Programming & APIs: Python (Flask, FastAPI), R, SQL, RESTful APIs, C# and ASP.net, Java
- Data Science & Analytics: Pandas, NumPy, scikit-learn, PySpark, Deep Learning (PyTorch, TensorFlow), Graph Neural Networks (PyG), Feature engineering
- DevOps & MLOps: Docker, Git, CI/CD (GitHub Actions), model deployment/monitoring
- Cloud: AWS (Lambda, EC2, S3), transferable to Azure
- Visualisation & BI: Matplotlib, Seaborn, Plotly, Tableau, Excel, Word, KPI dashboards, data storytelling.
- OS: Mac, windows and Linux.

## EXPERIENCE

### Machine Learning Engineer (Software Developer) — Azaries, Guildford, UK | Sep 2024- Aug 2025

- Developed and executed Amazon SageMaker Pipelines on 20+ real-world datasets—including NHS service demand, energy/gas usage, and customer churn—for training, evaluation, and model comparison.
- Built reusable E2E ML pipelines (PyTorch, scikit-learn, PySpark, PyG) for classification & regression, adding unit & integration tests, data validation, CI/CD, MLflow, and production monitoring.
- Translated findings into meaningful insights (feature importance, community/centrality analysis, link prediction, SHAP/Permutation tests), informing data quality fixes and decision-making.
- Built KPI dashboards for stakeholders (accuracy, precision, recall, F1 score, ROC-AUC) in Tableau/Plotly.
- Fine-tuned a Hugging Face Transformer to verbalise structured rules/outputs for improving explainability.
- Collaborated with cross-functional teams and stakeholders to define requirements and deliver solutions.

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

- Performed EDA and built SQL/JSON data pipelines for trend-focused analytics dashboards.
- Used Microsoft Excel to efficiently analyse and report business data and to update the CRM system.
- Created web applications using C#, ASP.NET, Microsoft SQL Server and MySQL.
- Designed and implemented user-friendly, responsive web pages using HTML, CSS, and Bootstrap.
- Two projects with PHP framework (Laravel, CodeIgniter)

## PROJECTS

- Business analytics on a real-world business dataset using R.[Github](#)
- LLM project RoBERTa/LSTM NER & Text Classification (PyTorch) — CI/CD with GitHub Actions.[Github](#)
- Created a unified preprocessing pipeline for diverse data to automate ML data preparation. [Github](#)
- Stock Market Analysis using Lambda, EC2 & S3 API with cost-aware; ~15% compute reduction. [Github](#)
- Dissertation: Fog-Robust Vehicle Detection (MSc) — YOLOv8 on foggy; +5.8% mAP vs baseline. [Github](#)

## **EDUCATION**

MSc Data Science with Merit — University of Surrey, 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.**