

# Shima Maleki

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## SUMMARY

Master's in applied AI professional with hands-on experience in machine learning model development, data engineering, and analytics automation. Skilled in Python-based ML frameworks (Scikit-learn, XG-Boost, Py-Torch fundamentals), SQL-based data pipelines, and cloud platforms (AWS, Azure). Seeking to transition practical ML training and data engineering experience into production machine learning engineering roles.

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## WORK EXPERIENCE

### Machine Learning & Analytics Engineer | Freelance | 2025 – Present

- Design and develop interactive Power BI dashboards for multiple small business clients, tracking sales, retention, and operational KPIs.
- Designed and implemented end-to-end data pipelines using Python and SQL to process 150K+ records from multiple sources (APIs, CSV, databases)
- Built automated ETL workflows reducing data processing time by 60%, incorporating data validation and quality checks
- Developed predictive analytics solutions using Python (Pandas, NumPy, Scikit-learn) for customer segmentation and churn prediction
- Created machine learning models for customer behaviour analysis, achieving 12% improvement in retention through targeted interventions
- Engineered feature pipelines integrating data transformation, normalization, and encoding for model-ready datasets

### Data Science & ML Engineering Intern | AI Core | 2024 – 2025

- Built scalable data pipelines processing 150K+ records from Azure SQL and multiple file formats for ML feature engineering
- Developed SQL-based feature extraction queries optimizing for model training datasets, reducing query execution time through indexing and optimization
- Automated data validation workflows and quality checks ensuring data integrity for downstream ML applications
- Implemented statistical analysis and exploratory data analysis (EDA) workflows using Python (Pandas, NumPy, SciPy)
- Created reproducible analytics workflows using version control (Git) and documented code for team collaboration
- Designed DAX measures and calculated columns for complex business metrics
- Reduced manual data processing overhead by 40% through automated pipeline deployment

### Machine Learning Engineer Trainee | Data Science Career Accelerator Program | 2022 – 2023

- Completed intensive 12-month program focused on production ML workflows, model deployment, and ML-Ops fundamentals
- Developed end-to-end ML pipelines including data ingestion, preprocessing, feature engineering, model training, and evaluation

- Built supervised learning models (XG-Boost, Random Forest, Logistic Regression) for classification and regression tasks
  - Implemented unsupervised learning algorithms (K-Means, DBSCAN, PCA) for clustering and dimensionality reduction
  - Created model evaluation frameworks using cross-validation, hyperparameter tuning (GridSearchCV, RandomizedSearchCV), and performance metrics
  - Engineered feature selection pipelines using statistical tests, correlation analysis, and feature importance rankings
  - Designed reproducible ML experiments with versioned code, documented methodologies, and result tracking
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## EDUCATION

- MSc – Applied Artificial Intelligence
  - MBA – Marketing & Finance
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## CERTIFICATIONS

- Data Science Bootcamp
  - AWS Machine Learning Nanodegree
  - AI Programming with Python Nanodegree
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## TECHNICAL SKILLS

### Machine Learning & AI

- Python, NumPy, Pandas, Scikit-learn, XG-Boost, Random Forest, SciPy, Seaborn, Matplotlib, PyTorch, Feature Engineering, Model Validation, Supervised/Unsupervised Learning

### Data Engineering & Pipelines

- SQL, T-SQL, ETL Pipeline Design, Data Preprocessing, Data Warehousing, Power Query (M Language), Data Modeling

### Cloud & Databases

- AWS (RDS, S3, EC2 - ML Nanodegree certified), Azure (SQL, Data Fundamentals), MySQL, PostgreSQL, SQL Server

### Development Tools

- Git, GitHub, Version Control, Jupyter Notebooks, CI/CD concepts (training experience)

### Analytics & Visualization

- Power BI (DAX, Power Query), Statistical Analysis, A/B Testing, Predictive Modelling