

# Fatemeh Rajabi

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## Professional Summary:

Bilingual educator and emerging technologist transitioning into AI, software development, and cloud computing. Brings hands-on experience with Java, Spring Boot, REST APIs, Python, and data-focused machine learning workflows. Equipped with foundational AWS cloud skills through AWS re/Start, with strengths in critical thinking, precision, and adaptable problem-solving. Known for organization, research-driven analysis, and the ability to translate complex concepts for both technical and non-technical audiences. Committed to building scalable, human-centered technical solutions in rapidly evolving environments.

## Technical Skills:

- **Machine Learning & AI:**  
LSTM, LLMs, Time Series Forecasting, Feature Engineering, Model Evaluation, Data Analysis
- **Programming Languages:**  
Python, Java, SQL
- **ML & Data Science Libraries:**  
TensorFlow, PyTorch, Scikit-learn, Pandas, Matplotlib
- **Cloud & MLOps Foundations:**  
AWS (Lambda, S3, Athena, EC2, API Gateway, Cognito), Serverless Architectures, Cloud-based Model Analytics
- **Data & Visualization Tools:**  
Amazon Athena, Amazon QuickSight, Jupyter, Git, GitHub
- **Operating Systems:**  
Linux, Windows

## Education

- Master of Science in Computer Science | University of North Carolina at Charlotte | Charlotte, NC  
Expected December 2026
- Per Scholas | AWS re/Start Training | Charlotte, NC  
February 2026
- Master of art in Teaching English as a Foreign Language | Alzahra University | Tehran  
September 2020 | GPA: 4.0

## Professional Certifications

- Applied AI Graduate Certificate  
University of North Carolina in Charlotte | Charlotte, NC | December 2025
- AWS Academy Graduate - Data Engineering - Training Badge  
Amazon Web Services Training and Certification | Charlotte, NC | December 2025
- Java API Development Certificate  
Central Piedmont Community College | Charlotte, NC | December 2024

## Professional Experience

AI Quality Assurance | Outlier | Remote

December 2023 - June 2024

- Evaluated large-scale AI model outputs across linguistics, programming, and NLP tasks, identifying hallucinations, logical gaps, and fairness issues
- Applied human feedback loops to align responses and support post-training fine-tuning and RLHF
- Achieved 98%+ quality control benchmark, ensuring reliability, robustness, and generalization of deployed AI systems
- Collaborated with cross-functional teams in Agile sprints, delivering structured feedback for continuous improvement
- Designed evaluation prompts to systematically test performance, applying prompt engineering for bias and fairness assessment

Teacher | Alzahra high school | Tehran

September 2017 - September 2023

- Designed and executed adaptive lesson plans, improving students' English proficiency by over 30% based on semester evaluation metrics
- Tailored learning strategies for diverse classrooms, supporting EFL learners through personalized feedback and differentiated instruction

## Academic Projects

Forex Price Prediction using Deep Learning

January 2025 – May 2025

- Architected and developed an LSTM-based model to forecast gold vs. USD forex prices, achieving an initial prediction accuracy improvement of ~15% over baseline models.
- Engineered and optimized features and applied MinMax scaling to optimize model convergence and stability.
- Incorporated sentiment analysis insights with model predictions to enhance real-time forex decision-making.

Lead Cloud Infrastructure Developer (AWS Serverless Data Analytics)

December 2025 – February 2026

- Built a serverless BI and feedback analytics platform using AWS Lambda, API Gateway, Athena, and S3 for real-time querying of user feedback data.
- Implemented Athena SQL analytics on partitioned S3 data to compute BI metrics including response volume, satisfaction scores, recommendation likelihood, and top topics.
- Developed a Cognito-authenticated conversational UI to convert raw analytics into human-readable, actionable insights.
- Embedded Amazon QuickSight dashboards via anonymous embed URLs to visualize trends and KPIs alongside chat-based analytics.