Fatemeh Rajabi

Portfolio | GitHub | LinkedIn   frajabi@charlotte.edu

+17043611587

EDUCATION

University of North Carolina at Charlotte — Charlotte, NC   May 2025 – Dec 2026
Master of Science in Computer Science, Concentration in Artificial Intelligence

Alzahra University — Tehran   Dec 2017 – Feb 2020
Master of Arts in Teaching English as a Foreign Language

Nasibeh University — Tehran   Dec 2013 – Sep 2017
Bachelor of Arts in Teaching English as a Foreign Language

CERTIFICATES

- Applied Artificial Intelligence – University of North Carolina in Charlotte   Jan 2025 – Dec 2025
- Full Stack Java Development – Central Piedmont Community College   Jan 2024 – Dec 2024
- 100 Days of Code: Python Bootcamp – Dr. Angela Yu   May 2024 – Aug 2024
- Certificate in Responsive Web Development - SheCodes Academy   Jan 2022 – Sep 2023

TECHNICAL SKILLS

- **Programming Languages:** Java, Python, JavaScript, HTML, CSS
- **Machine Learning & Data Science:** LSTM, CNN, Time Series Forecasting, Feature Engineering
- **Libraries & Frameworks:** TensorFlow, PyTorch, Scikit-learn, Pandas, Matplotlib, Spring Boot, Bootstrap
- **Tools & Platforms:** Jupyter, IntelliJ IDEA, VS Code, Git, GitHub, Maven, MySQL, REST APIs, Postman, AWS

SOFT SKILLS

• Problem Solving • Critical Thinking • Communication • Collaboration • Attention to Detail • Fast Learning

EXPERIENCE & PROJECTS

Forex Price Prediction using Deep Learning   Jan 2025 – May 2025

(LSTM, Python, TensorFlow)

- 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.

E-commerce Application– Full Stack Development   Sep 2024 – Dec 2024

(Java, Spring Boot, PostgreSQL, React, Tailwind CSS, Postman, Maven)

- Built secure RESTful backend APIs for user registration, JWT-based login, and product management using Spring Boot and PostgreSQL.
- Implemented authentication and route protection using Spring Security with encrypted credential storage.
- Developed responsive UI components in React with Tailwind CSS, including a styled login form and form validation.
- Designed relational schemas in PostgreSQL and optimized queries to improve backend performance.

Personal Portfolio Website   Jun 2024 – Aug 2024

(HTML, CSS, React, Netlify, GitHub)

- Developed a responsive portfolio using React, HTML, and CSS to showcase projects and skills.
- Built dynamic, interactive components and optimized performance for mobile and desktop devices.
- Deployed on Netlify with GitHub integration for seamless updates and version control.

AI Quality Assurance
Remote — USA   Dec 2023 – Jun 2024

- Evaluated large-scale AI model outputs across linguistics, programming, and NLP tasks, identifying issues such as hallucinations, logical errors, and fairness inconsistencies.
- Applied human feedback loops to align model responses with expected behaviors, supporting post-training fine-tuning and Reinforcement Learning with Human Feedback (RLHF).
- Achieved 98%+ quality control benchmark in evaluation tasks, ensuring reliability, robustness, and generalization of deployed AI systems.
- Collaborated with cross-functional teams to refine evaluation metrics (accuracy, precision, recall, F1-score) and deliver structured feedback for iterative model improvement.
- Designed evaluation prompts to systematically test model performance, applying principles of prompt engineering for bias and fairness assessment.

English Teacher
Alzahra High School   Sep 2017 – Sep 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.