Fatemeh Abbasi Razgaleh

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Work Experience

Arrow Electronics — **Centennial, CO**
AI Technical Solutions Engineer — **Jan. 2025 – Current**

- Currently developing NeMo Curator Demo and integrating it into Fine-tuning Demo
- Collaborating with the Arrow internal Data Science team to create an Agentic AI SKU Auto-Classifier
- Partnering with WWT & N50 Project to develop a multi-lingual AI Tutor to enable students in South America
- Developed PEFT demo using NVIDIA NeMo and Gradio to showcase LoRA and LLM finetuning techniques
- Deployed Elastic Search RAG demo and OPEA ChatQnA demos for partner engagement
- Collaborating across Data/AI team on the deployment of the AI Assistant Avatar - NVIDIA ACE Digital Human
- Partnering with the NVIDIA AI Workbench team on AI projects such as PDF-to-Podcast
- Designing and developing multi-vendor AI solutions and POCs with cross-functional teams
- Held webinars to enable partners on AI solutions, focusing on LLM Agents and Finetuning
- Co-led and designed biweekly AI Developer Essentials sessions to enable Arrow engineering team
- Enabling Arrow partners in AI by understanding their unique AI needs and showcasing AI demos

Arrow Electronics
AI Technical Solutions Associate — **Jan. 2024 – Dec. 2024**

- Developed a customizable LLM RAG app using LangChain from scratch for specialized Arrow AI Assistants
- Deployed locally hosted RAG apps on the NVIDIA DGX platform for Arrow AI Assistants
- Developed NVIDIA-focused ML & AI demos using NVIDIA NIMs to enhance business development
- Engaged with partners to identify and address their AI needs and challenges
- Presented AI demos at Arrow Technology Summit (ATS) to share insights into AI technologies
- Assessed potential AI company partnerships in supplier discovery meetings
- Created AI security guidelines to support the marketing team
- Led ML & AI technology training sessions for the pre-sales team
- Active member of Cloud, Data, & AI team and Arrow Electronics AI Center of Excellence

Joint Institute for Laboratory Astrophysics (JILA) — **Boulder, CO**
Undergraduate Research Assistant — **Jan. 2016 – Sep. 2017**

- Precision Measurement of the Electron's Electric Dipole Moment (eEDM)
- Supervised by Nobel Laureate Prof. Eric Cornell & Prof. Jun Ye
- Developed Programming, Electrical, Optical & Mechanical Projects
- Notable Projects : Hf Rod Ablation Source Picomotor & Polarimeter

Notable ML & AI Projects

NVIDIA NeMo PEFT | Gen AI | NeMo Framework | HuggingFace | Fine-tuning | LLMs | Python | Gradio

Arrow Digital Human | Gen AI | RAG | Kubernetes | Docker | Digital Twins

Specialized Arrow AI Assistants | Gen AI | Customizable RAG | Python | LangChain | Streamlit

Deep Learning in Particle Physics | Python | Keras | TensorFlow | Scikit-Learn | Neural Networks Model

Motion Detection in Traffic Videos | Python | OpenCV

Speech Recognition Virtual Assistant | Python | Mozilla DeepSpeech

Solar Radiation Prediction | Python | Scikit-Learn | Linear Regression

Twitter Sentiment Analysis | Natural Language Processing | Python | NLTK | Scikit-Learn

IMDB Movie Reviews Prediction Model | Neural Networks & Deep Learning | Python | TensorFlow | Keras

Education

University of Texas, Austin **Aug. 2025-Current**
Master of Science in Artificial Intelligence

- Notable Courses: Deep Learning

University of London **Oct. 2020 – Oct. 2023**
Bachelor of Science in Computer Science Specialization in Machine Learning & Artificial Intelligence

- First Class Honors
- Notable Courses: Neural Networks & Machine Learning, Artificial Intelligence, Data Science, Natural Language Processing, Intelligent Signal Processing, & Object-Oriented Programming

University of Colorado Boulder **Jan. 2015 – May 2017**
Coursework in Engineering Physics

- Notable Courses: Electromagnetism I, Modern Physics, & Electronics Lab

Skills

MLOps: LangChain, TensorFlow, Keras, Scikit-Learn, PyTorch, NVIDIA NeMo, Docker, Kubernetes (K8s), Git

Cloud Platforms: Azure, GCP, AWS

Programming Languages: Python, C++, C, SQL, Bash, Express & Node.js, JavaScript, CSS, HTML, LaTeX

Software: MySQL, MATLAB, Mathematica, LabVIEW, SolidWorks, Arduino

Soft Skills: Communication, Teamwork, Collaboration, Leadership, Problem-Solving, Project Management, Creativity

Languages: English (Fluent) , Persian (Fluent), French (Intermediate, DELF B2), German (Beginner)

Certifications

AWS Certified Cloud Practitioner	**In Progress**
Databricks ML Practitioner	**In Progress**
Microsoft Certified: Azure Data Scientist Associate	**In Progress**
NVIDIA-Certified Associate: Generative AI and LLMs	**In Progress**
Cohere ML Summer School	**July 2025**
UC Berkeley Advanced Large Language Model	**July 2025**
FinOps Certified Practitioner	**Apr. 2025**
NVIDIA DLI - Building AI Agents with Multimodal Models	**Mar. 2025**
UC Berkeley Large Language Models Agents	**Dec. 2024**
NVIDIA-Certified Associate: AI Infrastructure and Operations	**Jun. 2024**
NVIDIA AI Technical Curriculum (2024)	**Jun. 2024**
Arrow AI CoE Team Technical Curriculum	**May 2024**
QxQ Quantum Computing	**May 2024**
Microsoft Certified: Azure Fundamentals, AZ-900	**Apr. 2024**
ArrowSphere Platform Accreditation	**Mar. 2024**
Google IT Support Specialization	**Aug. 2021**
Data Engineering, Big Data, and Machine Learning on GCP Specialization	**Oct. 2020**

Conferences

Progress towards a second-generation eEDM measurement using trapped molecular ions, Daniel Gresh, William Cairncross, Tanya Roussy, Yuval Shagam, Yan Zhou, Kia Boon Ng, **Fatemeh Abbasi Razgaleh**, Parker Hinton, Jun Ye, Eric Cornell, **DAMOP Conference**, 2017, Poster