

Fatemeh Abbasi Razgaleh

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Work Experience

Arrow Electronics

AI Technical Solutions Engineer

Centennial, CO

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-Classifer
- 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)

Undergraduate Research Assistant

Boulder, CO

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