Mohammad Faseeh Ahmed

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EDUCATION

Rochester Institute of Technology, Rochester, NY, M.S in Data Science Expected May 2025

Coursework: Neural Networks, Software Engineering for Data Science, Applied Statistics. GPA: 3.84/4.00

Jawaharlal Nehru Technological University Hyderabad, B.Tech in Computer Science July 2018 - July 2022

Coursework: Data Structures and Algorithms, Computer Vision, Artificial Intelligence, NLP GPA: 3.2/4.00

SKILLS

Programming Languages: Java, Python, Object Oriented Programming(Python, Java)

Frameworks: PyTorch, Keras, Scikit, Tensorflow, Flask

Databases: SQL, MongoDB, MySQL, PostgreSQL, NoSQL

ML Algorithms/Techniques: Deep Learning, NLP, A/B Testing, Time Series

PROFESSIONAL EXPERIENCE AND INTERNSHIPS

Daiichi Sankyo Inc, Basking Ridge, NJ- R&D Data Governance Intern 03/2024 - Present

- Developed ICF analysis tool using BERT and T5 models, enhancing classification accuracy by 20%.
- Built Flask-based frontend for secure document modifications based on user permissions.
- Optimized model accuracy by 20% with Large Language Models using Amazon Bedrock.
- Utilized Amazon SageMaker for scalable legal document processing.
- Improved ICF analysis tool performance with EC2 instances.
- Designed on-premise chatbot reducing access time by 70%.
- Enabled visualizations for improved data comprehension.
- Automated milestone tracking, reducing missed deadlines by 30%.
- Developed secure chatbot architecture, ensuring 100% compliance with regulations.
- Integrated RAG and AI achieving 80% higher answer accuracy.
- Led clinical data migration to Redshift, ensuring data accuracy and analytics accessibility.
- Optimized Redshift query performance for high-speed analysis.
- Implemented data validation checks for migration compliance.
- Aligned tool capabilities with data-sharing policies and compliance standards.

Rochester Institute Of Technology, Rochester, NY- Research Assistant 08/2024 - Present

- Enhanced federated learning models with gRPC and PyTorch for scalable training algorithms.

- Reduced communication overhead by 15% in distributed environments with PyTorch RPC.
- Accelerated model convergence by 20% with FedDisco algorithm integration.
- Transitioned to adaptive communication strategies for real-time model updates.
- Improved system performance by 30% for Large Language Models.
- Enhanced federated learning model accuracy by 10% using gRPC.
- Designed real-world machine learning projects for student application.
- Provided personalized project support to foster student learning outcomes.

SEO Content AI, Los Angeles, CA - AI Infrastructure Engineer Nov 2022 - July 2023

- Boosted content generation efficiency by 25% through transformer integration.
- Developed Chrome extension for 40% faster content generation.
- Deployed Docker for scalable cloud deployment.
- Led effective development methodologies for team collaboration.
- Conducted A/B testing on various models for optimized content creation.
- Utilized GCP's Google Translate API for multi-language content reach.
- Implemented NLP algorithms for error-free content and user trust.

White Label Resell, Los Angeles, CA - Machine Learning Engineer June 2022 - March 2023

- Achieved 60x cost reduction with automated article generation.
- Analyzed and generated 130K+ high-quality articles within a week.
- Managed large datasets efficiently with DynamoDB.
- Improved content relevance with advanced NLP model tuning.
- Diversified content creation with generative models.
- Optimized specific content generation tasks with T5 Codegen.
- Enhanced thematic accuracy with custom dataset models.
- Streamlined ML development with Git and Docker for continuous improvement.

Digital Clinics Research and Services, Hyderabad, India - Data Scientist Intern Nov 2021 - Dec 2022

- Developed image classification system with TensorFlow for cancerous cell detection.

Digital Clinics Research and Services, Hyderabad, India - Data Scientist Intern Nov 2021 - Dec 2022

- Engineered custom segmentation solution with Detectron2 for tumor boundary delineation.
- Implemented YOLOv5 for automated pathological slide screening with OpenCV integration.
- Led MLOps practices with Docker and AWS for scalable AI solutions.
- Mentored junior colleagues on ML and DL projects for enhanced expertise.

Edgeforce Solutions, Hyderabad, India - Data Scientist Intern Nov 2021 - Feb 2022

- Developed YOLOv5-based real-time object detection system with 90% accuracy.