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

Frameworks: TensorFlow, PyTorch, Scikit, Keras, PySpark

Databases: MongoDB, NoSQL, DynamoDB

Technologies: Big Data

ML Algorithms/Techniques: Recommender Systems, Deep Learning, NLP

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, enhancing data processing efficiency by 20%.
- Implemented LLMs with Amazon Bedrock, increasing classification accuracy for data sharing by 20%.
- Utilized SageMaker for model training, streamlining management of legal documents at scale.
- Optimized model inference with EC2, improving ICF tool performance and reliability.

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

- Automated article generation with AWS Lambda and NodeJS, reducing operational costs by 60x.
- Integrated NLP and TensorFlow to generate 130K+ articles weekly, enhancing content strategy.
- Fine-tuned BERT and RoBERTa models, improving relevance and quality of generated marketing content.
- Employed MLOps with Git and Docker, streamlining ML model deployment and collaboration.

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

- Enhanced federated learning models with PyTorch and gRPC, improving decentralized training scalability.
- Optimized PyTorch RPC environments, reducing communication overhead by 15%.
- Integrated FedDisco algorithm, accelerating model convergence and cutting training time by 20%.
- Developed distributed training techniques for LLMs, boosting system performance by 30%.

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

- Enhanced AI content generation by 25% through integrating transformers within AWS microservices.
- Developed Python and JavaScript Chrome extension, increasing content quality and speed by 40%.
- Utilized Docker with AWS ECS and Fargate for scalable, reliable cloud deployments.

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

- Developed image classification system with Faster R-CNN and TensorFlow, detecting cancerous cells accurately.
- Engineered segmentation with Detectron2 and QuPath, enhancing tumor boundary precision in medical scans.
- Implemented YOLOv5 and OpenCV for automated slide screening, achieving high diagnostic marker accuracy.

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

- Built real-time object detection system using YOLOv5 and TensorFlow, achieving 90% accuracy.
- Developed speech recognition model with PyTorch, deploying in Army Walkie Talkie emulator at 95% accuracy.
- Utilized Docker and AWS for scalable model deployment, reducing operational costs effectively.

PROJECTS

Chronic Kidney Disease Predictor

- Used **Scikit-learn** to develop a logistic regression model, achieving a 98% F1 score for disease prediction.
- Employed **Flask** and the **MERN stack** to orchestrate a hybrid application, enhancing user accessibility by 30%.
- Utilized **Pandas** and **Numpy** for data preprocessing, ensuring 95% accuracy in model inputs.

Covid19 Bot

- Developed a chatbot using **Python**, **Flask**, and **DialogFlow**, providing real-time updates to over 10,000 users.
- Integrated **RapidAPI** to access live COVID-19 data, ensuring information was updated every 5 minutes.
- Implemented **MongoDB** for managing user interactions, enhancing personalized responses by 40%.