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: PyTorch, Keras, Scikit-learn, TensorFlow, PySpark, Flask
Databases: SQL, NoSQL, MongoDB, DynamoDB
Technologies: Big Data
ML Algorithms/Techniques: Recommender Systems, Deep Learning, NLP, Regression, Classification, Clustering

PROFESSIONAL EXPERIENCE AND INTERNSHIPS

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

- Developed an ICF analysis tool using **BERT**, **T5**, and **Amazon Bedrock**, enhancing language processing capabilities.
- Built a **Flask** frontend for the ICF tool, enabling secure document classification modifications based on user permissions.
- Implemented **Amazon Bedrock** LLMs, increasing classification accuracy by 20% in detecting data sharing prohibitions.
- Utilized **Amazon SageMaker** for model training, streamlining the handling of large legal document volumes efficiently.

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 a **Chrome extension** using **Python**, **JavaScript**, and **NodeJS**, boosting content speed by 40%.
- Utilized **Docker**, **AWS ECS**, and **Fargate** for scalable and reliable deployment across cloud environments.
- Implemented **NLP** algorithms with **BERT**, **RoBERTa**, and **DistilBERT**, enhancing content quality and user trust.

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

- Automated article generation using **AWS Lambda**, **NodeJS**, and **API Gateway**, reducing operational costs by 60x.
- Integrated **NLP** and **TensorFlow** to generate over 130K articles weekly, improving content strategy effectiveness.
- Fine-tuned **BERT**, **RoBERTa**, and **ALBERT** models, enhancing the relevance and quality of generated content.
- Implemented **MLOps** with **Git** and **Docker**, streamlining ML model development, training, and deployment.

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

- Enhanced federated learning models using **gRPC** and **PyTorch**, implementing scalable decentralized algorithms.
- Optimized distributed environments with **PyTorch RPC**, reducing communication overhead by 15%.

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

- Developed an image classification system using **Faster R-CNN** with **TensorFlow**, enhancing cancer cell detection accuracy.
- Engineered a segmentation solution with **Detectron2** and **QuPath**, improving tumor boundary delineation in medical scans.

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

- Built a **YOLOv5** real-time object detection system with **Python** and **TensorFlow**, achieving 90% accuracy.
- Integrated the system with **Streamlit** for a user-friendly interface, enhancing user interaction and accessibility.

PROJECTS

Chronic Kidney Disease Predictor

- Utilized **Python's Pandas** and **NumPy** for data preprocessing, ensuring accurate model inputs.
- Implemented **Scikit-learn** to develop a logistic regression model, achieving a 98% F1 score.
- Deployed with **Flask** and **MERN stack**, providing an intuitive platform for disease prediction.

Flight Price Predictor

- Enhanced model using **Scikit-learn** and **LSTM networks**, improving forecasting accuracy by 15%.
- Conducted feature engineering with **Pandas**, identifying key price determinants from historical data.
- Deployed on **Heroku** with a **Flask** interface, enabling real-time flight price predictions.