**Mohammad Faseeh Ahmed**

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**EDUCATION**

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**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**

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**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**

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**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**

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**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%.