Mohammad Faseeh Ahmed

[mm9314@g.rit.edu](mailto:mm9314@g.rit.edu) | +1 585 202 5217 | [LinkedIn](https://www.linkedin.com/in/mohammad-faseeh-ahmed/) | [Github](https://github.com/faseehahmed26) | [Portfolio](https://faseehahmed26.github.io/portfolio/)|[Kaggle](https://www.kaggle.com/faseeh001)|[Tableau](https://public.tableau.com/app/profile/faseeh5112)

**EDUCATION**

**Rochester Institute of Technology, Rochester, NY,** M.S in Data ScienceAug 2023 - 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, Data Warehousing, NLP **GPA: 3.2/4.00**

**SKILLS**

**Programming Languages:** Java, Python, C++, R, JavaScript, Go, Julia, Object Oriented Programming(Python, Java)

**Frameworks:** PyTorch, Keras, Scikit, Tensorflow, Groovy, Spark, Flask, React, React-Native, NodeJS,

**Databases:** SQL, MongoDB, SQLite, MySQL, NoSQL, PostgreSQL, DynamoDB, SAS

**Technologies:** Docker, Git, AWS, Azure, GCP, Kafka, JSON, Numpy, Pandas, MLflow, Postman, Tableau,Power BI, MS Excel

**ML Algorithms/Techniques:** Regression, Classification, Clustering, Recommender Systems, Deep Learning, NLP, A/B

Testing, MLOps, Time Series, Optimization, Exploratory Data Analytics, ETL, Forecasting

# PROFESSIONAL EXPERIENCE AND INTERNSHIPS

**Daiichi Sankyo Inc, Basking Ridge, NJ- R&D Data Governance Intern** 06/2024 - Present

* Developed an ICF analysis tool using BERT and T5 models, also testing **Amazon Bedrock** for text processing.
* Built an on-premise chatbot using Flask, delivering clinical trial data 70% faster using RAG and Ollama architecture.
* Enabled dynamic visualizations and automated milestone tracking, reducing missed deadlines by 30% and improving decision-making efficiency.
* Built a data migration pipeline from Veeva Vault to Amazon Redshift, maintaining data integrity and indexing for

high-performance analytics.

* Implemented data governance checks within the migration process, upholding compliance standards and ensuring

reliable, policy-aligned data access.

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

* Collaborating with Professor Haibo Yang to enhance federated learning models, utilizing **gRPC** and **PyTorch** to implement scalable decentralized training algorithms.
* Working on advanced distributed training techniques for **Large Language Models** (LLMs) on GPU, achieving a 30% increase in system performance and minimizing network latency.

**SEO Content AI, Los Angeles, CA - AI Infrastructure Engineer** 11/2022 - 07/2023

* Utilized Docker for scalable deployment across cloud environments, focusing on AWS ECS and Fargate.
* Optimized content creation through **A/B testing** with models like LLaMA-13B, T5, and GPT-3.5.
* Incorporated Langchain, LLamaIndex and **Vector Databases** like Pinecone and FAISS, for advanced AI-driven search capabilities, significantly enhancing the precision and relevance of content generation.
* Participated in the full SDLC, from design to iterative development and unit testing, within an agile team framework.

**White Label Resell, Los Angeles, CA** - **Machine Learning Engineer** 06/2022 - 03/2023

* Deployed **API** endpoints with **NLP**, securing over 130,000 quality article generations in a week.
* Employed **MLOps** practices with **Git** and **Docker** for streamlined model development and deployment.
* Explored generative models (**GPT-3, GPT-Neo, BERT**) to diversify content creation, enhancing article uniqueness.

**Digital Clinics Research and Services, Hyderabad, India** - **Data Scientist Intern**  11/2021 - 12/2022

* Developed an image classification system using **Faster R-CNN** for detecting cancerous cells in **histopathological images**.
* Engineered a segmentation solution with **Detectron2** for precise tumor delineation in medical scans.
* Implemented **YOLOv5** for automated screening of pathological slides, improving diagnostic speed and accuracy.

**Edgeforce Solutions, Hyderabad, India** - **Data Scientist Intern** 11/2021 - 02/2022

* Built a **YOLOv5**-based **real-time object detection** system using Python and TensorFlow, integrated with **Streamlit** for a user-friendly interface, achieving 90% accuracy.
* Engineered a deep learning model for **speech recognition**, deployed in an Army Walkie Talkie emulator.

# PROJECTS

**Chronic Kidney Disease Predictor**

* Achieved a 98% **F1-score** in kidney disease prediction using Python's **Pandas**, **Numpy**, and **Scikit-learn** for data manipulation and used **cross validation** for model development.
* Orchestrated a hybrid Full Stack End-to-End application, utilizing Flask for backend and the MERN stack for frontend.

**Number Plate Detection**

* Implemented **SSD** with **OpenCV** and **OCR** for accurate, real-time number plate detection and text extraction.

# RESEARCH PAPERS

**Tubules Detection on Breast Carcinoma Whole Slide Images Using Artificial Intelligence (Sep 2022):**

* The abstract was selected for presentation at the prestigious International C-MIMI Conference at Johns Hopkins University, underscoring the project's contribution to medical imaging and diagnostics.

**Web-Based Mitosis Detection on Breast Cancer Whole Slide Images Using FasterRCNN and YOLOv5 (Dec 2022):**

* This significant paper, published by the Science and Information (SAI) Organization in the International Journal of Advanced Computer Science Applications (IJACA).