**Mohammad Faseeh Ahmed**

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**EDUCATION**

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

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:** 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**

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**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**

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**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.