Mohammed Sameer Syed

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Education

University of Arizona **Jan. 2024 – Present**
Master of Science in Information Science: Machine Learning *Tucson, Arizona, USA*

- Information Science
- Data Warehousing
- Machine Learning
- Neural Networks
- Applied ML
- Cloud Analytics
- Artificial Intelligence
- NLP

Education

National Institute of Technology **Jun. 2019 – May. 2023**
Bachelor of Technology in Electronics and Communication Engineering *Srinagar, India*

- Data Structures and Algorithms
- Analog, Digital Electronics
- Computer Architecture

Experience

Lumenci **January 2024 – Present**
Software Engineer *Gurgaon, Haryana, India*

- Designed and implemented an automated portfolio analysis system, leveraging machine learning algorithms and advanced feature engineering techniques, reducing the work of Associate consultants from 40-50 hours per project to a matter of minutes.
- Reduced median latency by 82% by leveraging GCP's GPU for backend operations.
- Developed an AI workbench using CrewAI and OpenAI Agents in a Multi-Agent framework for enhanced, automated performance and scalability.

Indian Institute of Technology, Indore **January 2022 – May 2022**
Research Intern *Indore, MP, India*

- Developed a Graph Neural Network (GNN) architecture from the ground up to train on a decade's worth of data from the NASA's Solar and Heliospheric Observatory satellite.
- Led a team of 3 in researching time series forecasting using deep learning frameworks.

Projects

Self Propulsive Auto Landing Machine | *Landing Model Rocketry* **January 2023**

- In my final year grad project, I led a team of 10 to create a groundbreaking, innovative project, first of its kind in India.
- We designed and constructed a model rocket, it was equipped with a custom-built flight computer and control system, enabling it to land on its legs.
- We have applied for a patent for the ARCHER 1.0 flight computer, which was integral to the success of the project.
- Utilized a range of cutting-edge technologies, including model design, 3D printing, PCB design, IoT, rocket fuel, and SIMULINK, while demonstrating strong problem-solving skills and collaborating effectively with multidisciplinary teams.

MCQ Generator Web App | *OpenAI API, Langchain, Streamlit* **October 2020**

- Developed an end-to-end web application using Streamlit, OpenAI's API, and LangChain to generate multiple-choice questions (MCQs) for various topics.
- Integrated memory capabilities to enable the app to retain context and improve question relevance over multiple interactions. Added features to recommend documents for generating quiz questions and included many customizable parameters to tailor the quiz generation process.
- Implemented a user-friendly interface with Streamlit, ensuring seamless interaction.

Technical Skills

Languages: Python, C++, C, HTML, CSS, SQL
Developer Tools: VS Code, Jupyter Notebook, Google Collab, Android Studio, Docker, Kali Linux
Technologies/Frameworks: TensorFlow, PyTorch, Gradio, Keras, scikit-learn, XGBoost, NLP, NLTK, Pinecone VectorDB

Achievements

MyCaptain | *Received LOR for excellence at Workshop on Artificial Intelligence.*

Unacademy | *Secured 4th place in all India IQ quiz held by Unacademy*

IEEE | *Runner-Up in IEEE Brainly Event*