Mohammed Sameer Syed

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Education

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

- Machine Learning
- Neural Networks
- Data Analysis
- Generative AI
- Artificial Intelligence
- Data Visualization
- Cloud computing
- Applied NLP

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

- Data Structures and Algorithms
- Analog, Digital Electronics
- Probability and Satistics

Experience

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

- Developed and deployed 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.
- Accelerated portfolio analysis by 82% by leveraging GCP's GPU for backend operations.
- Developed an AI workbench using CrewAI and OpenAI agents in a multi-agent framework, improving operational efficiency by 70% and boosting model accuracy from 6% to 72%.

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

- Developed a Graph Neural Network (GNN) architecture from scratch to process and train on a decade's worth of image data from NASA's Solar and Heliospheric Observatory (SOHO) satellite, achieving 91% accuracy in time series prediction.
- Led a team of 3 researchers and experimented various deep learning models including CNN, RNN, GAN, and GNN for time series forecasting and image classification tasks, selecting optimal models based on performance metrics.

Projects

J.A.R.V.I.S. (Desktop AI Assistant) | *Selenium, Huggingface, Llama, Speech Recognition, GUI* **January 2025**

- Developing an intelligent AI system inspired by J.A.R.V.I.S. from Ironman, serving as a desktop assistant with real-time search capability, memory retention, and multimodal interaction (speech and auditory input).
- Incorporating features such as application control, conversational AI, image generation, camera access, calendar scheduling, and automated reminders.
- Utilizing Llama models through the Groq API, Hugging Face libraries, and Selenium to ensure efficient and scalable performance.
- Built entirely from open-source technologies, emphasizing accessibility, flexibility, and innovation.
- Designed a user-friendly and dynamic GUI to enhance the overall interaction experience.

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.
- Engineered and built a model rocket, it was equipped with a custom-built flight computer and control system, enabling it to land on its legs.
- Filed a patent application for the ARCHER 1.0 Flight Computer, crucial to the success of the project.
- Integrated 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.

Skills

Languages: Python, C++, C, HTML, CSS, SQL
Developer Tools: VS Code, Jupyter Notebook, Google Colab, Android Studio, Docker, Kali Linux, Google Cloud Platform
Machine Learning Algorithms: Linear Regression, Logistic Regression, SVM, Decision Tree, Random Forest, PCA
Deep Learning Algorithms: CNN, RNN, GAN, GNN
Technologies/Frameworks: TensorFlow, PyTorch, Gradio, Keras, scikit-learn, NumPy, Pandas, FastAPI, XGBoost, NLP, NLTK, Pinecone VectorDB, MongoDB
Soft skills: Collaboration, Problem solving, Communication, Leadership

Achievements

MyCaptain | *Received LOR for excellence at Workshop on Artificial Intelligence.*
IIT Indore | *Received Endorsement and excellence certificate during Research Internship.*