Shreyas Sai Raman

US Citizen | (857)351-9584 | shreyasraman53@gmail.com | LinkedIn | Github

Education

Northeastern University Master of Science in Artificial Intelligence Coursework: Machine Learning, Algorithms, Foundations of Artificial Intelligence

PES University

Bachelor of Technology, Computer Science and Engineering Coursework: Machine Intelligence, Database Management Systems, Data Analytics

Technical skills

Languages: Python, SQL, Java, C++

Database: MySQL, MongoDB

Skills: Machine Learning, Deep Learning, NLP, LLM, Statistical Modeling, Google Cloud Platform (Vertex AI) Libraries: Pandas, NumPy, Pytorch, Matplotlib, TensorFlow, Scikit-Learn, Librosa, NLTK, Seaborn Visualization: Excel, PowerBI, Tableau

Work Experience

Axai(Gogullak)

AI/ML Intern

- Optimized fine tuning of large language models (LLMs) on Vertex AI by implementing model distillation and adjusting inference batch sizes, reducing cloud inference latency by 20% while cutting computational cost by 30%.
- Developed an end-to-end LLM orchestration pipeline using Flask, integrating real-time food, flight and geolocation APIs, and engineered dynamic, context-aware prompt templates, resulting in a 20% increase in response quality and relevance.

Acmegrade

AI Researcher Intern

- Built an NLP-driven chatbot using feedforward neural network with NLTK for tokenization and lemmatization, supporting 50+ intents and an active learning loop that improved intent recognition accuracy by 15% through continuous user feedback.
- Leveraged NLP techniques with libraries including JSON, Tensorflow and Numpy to enhance response generation, leading to 15% improvement in chatbot accuracy.

Academic Projects

A Federated Learning Approach for Disease Prediction and Remedies Recommendation Jan 2023 - Dec 2023

- Implemented Federated Learning to pre-train the BERT model on clinical data from 10+ hospitals and practices, enabling privacy-preserving model.
- Facilitated collaboration across datasets by sharing only model updates, reducing the risk of data misuse while improving the model's accuracy by 15% in clinal text understanding.

Speech Emotion Recognition

• Designed a speech emotion recognition system using LSTM model, achieving accuracy of 93.637% by extracting MFCC features from audio with Librosa for classifying emotions such as sadness, happiness, fear, disgust and anger.

Lung Cancer Prediction

- Developed a lung cancer prediction system using various models like KNN, SVM and Random Forest Classfier, achieving 93% accuracy with Random Forest Classifier.
- Analyzed 276 patient records to identify key symptoms contributing to lung cancer, enabling early detection and improving model prediction efficiency by 20%.

Publication

Published "A Federated Learning Approach for Disease Prediction and Remedies Recommendation" at IEEE 9th I2CT 2024.

Boston, MA Expected May 2026 GPA: 3.83/4.0

Bangalore, India Dec 2020 - May 2024 GPA: 8.46/10.0

Ahmedabad, India

Aug 2023 - Jan 2024

Bangalore, India

June 2022 - Aug 2022

Oct 2022 - Dec 2022

Oct 2022 - Dec 2022