Karnatapu Sreekar Sai Bharath

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Summary

I am an aspiring AI and Machine Learning professional with a strong foundation in machine learning, deep learning, computer vision, and natural language processing. I have hands-on experience in developing and deploying end-to-end AI solutions using frameworks like PyTorch and TensorFlow. Passionate about continuous learning and problem-solving, I am driven to build scalable, real-world applications that tackle meaningful challenges in the tech industry.

Education

Bachelor of Technology
Sreyas Institute of Engineering and Technology
11/2022 - 05/2026 Hyderabad, India

Intermediate
Narayana Junior College
Hyderabad, India

Skills

- **Programming Languages:** Python, C, Java, HTML/CSS, JavaScript
- **Frameworks & Tools:** PyTorch, TensorFlow, Streamlit, Jupyter Notebook, VS Code
- **Databases:** MySQL
- **Core Expertise:** Machine Learning, Deep Learning, Natural Language Processing (NLP), Computer Vision, Data Analysis, Git, Data Structures & Algorithms

Projects

AI for Predicting Human Behaviour on Social Media

- Built a sentiment analysis system to predict user behavior from tweets using the Sentiment140 dataset.
- Implemented NLP techniques with LSTM and BERT models for emotion classification.
- Focused on preprocessing, training, and evaluation of large-scale social media text data.
- Achieved consistent sentiment prediction performance across multiple test scenarios.

Voice Command to Text-Based Actions System

- Developed a Python-based system to convert voice commands into executable text actions.
- Integrated speech recognition and NLP for real-time command processing and task execution.
- Enhanced user interaction through hands-free control of digital applications.
- Designed for accessibility and seamless human-computer communication.

Real-Time Traffic Prediction using Machine Learning

- Created a machine learning model to predict traffic congestion using real-time and historical data.
- Applied regression algorithms to forecast traffic flow and vehicular patterns.
- Visualized results with dynamic plots to assist in transport decision-making.
- Aimed to optimize urban mobility and reduce commute times.

Certifications

Introduction to the Fundamentals of Databases, Agile Scrum Foundation, Artificial Intelligence- Simplilearn
Introduction to Python, Introduction to Machine Learning- Kaggle
Basics of Computer Networking- Great Learning

Extracurricular Activities

Contributed to collaborative group projects or mini-projects in college and participated in Workshops and Hackathons.