

SARATH KUMAR NVS

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EDUCATION

Indian Institute of Technology, Madras, India

2022-25

B.Sc in Data Science and Analytics

GPA: 7.5

Vasavi College of Engineering, Hyderabad, India

2022-26

B.E. in Computer Science and Engineering

GPA: 8.5

SUMMARY

Highly motivated Computer Science undergrad with a strong foundation in AI/ML and full-stack development. Proven ability to develop innovative solutions, as demonstrated by projects in LLMs and AI-powered applications. Seeking a challenging internship to contribute to cutting-edge projects.

SKILLS

Programming Languages: C, Java, Python **Databases:** MySQL, MongoDB **Technologies:** AI, ML, GenAI, AWS, GitHub, NoSQL, RDBMS, Flutter, webRTC

PROJECTS

Automated Neural Architecture Search | May 2024

Implemented a simplified Neural Architecture Search algorithm to automatically design CNN architectures for image classification. Used evolutionary algorithms to optimize network depth, width, and layer configurations. Evaluated different architectures on CIFAR-10 dataset and visualized the search process and results using Python plotting libraries.

Technologies Used: TensorFlow, NumPy, Matplotlib, Scikit-learn, CIFAR-10 Dataset

Stock Market Prediction using ML | June 2024

Built a machine learning pipeline to predict stock price movements using technical indicators and historical data. Implemented multiple algorithms including Random Forest, LSTM, and XGBoost for time series forecasting. Created data visualization dashboard using Streamlit to display predictions and model performance metrics with backtesting results.

Technologies Used: Python, Pandas, Scikit-learn, XGBoost, TensorFlow, Streamlit, yFinance

Medical Image Classification System | Aug 2024

Developed a CNN-based system for classifying medical images using PyTorch. Implemented data augmentation and transfer learning with ResNet architecture, achieving 92% accuracy on chest X-ray classification. Built a simple web interface using Flask for model inference and integrated with SQLite database for storing results and patient metadata.

Technologies Used: PyTorch, OpenCV, Flask, SQLite, NumPy, Matplotlib

INTERNSHIPS

Head UI Designer Mantrick Studios, Hyderabad, Online

Oct 2023 Designed 5 wireframes in Figma for client applications. Built initial versions of websites using HTML, CSS, and JS.

Research Intern, IIT BHU, Hyderabad, Online

Dec 2024 Implemented Swin Transformer (56% accuracy, 3 class classification), LSTM and saliency test methods; contributed to result interpretation.

Backend Developer, Aathi Yoga, Hyderabad, Online

2025 Developed REST APIs in Ruby on Rails with JWT and MySQL integration.

Certifications

Indian Institute of Technology, Madras

2022-25

Diploma In Programming

AWS Training And Certification

2025

Cloud Practitioner Essentials