

Kotha Venkata Satya Pranay

Vellore Institute of Technology, Amaravathi

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GitHub Profile
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EDUCATION

- VIT - AP University** 2021-2025
Bachelor of Technology in Computer Science and Engineering CGPA: 9.19

TECHNICAL SKILLS AND INTERESTS

- Programming Languages:** Java, Python, JavaScript, PHP
- Databases:** MySQL, MongoDB
- Machine Learning & Deep Learning:** TensorFlow, Scikit-learn, Keras, XGBoost
- Data Analysis & Visualization:** Pandas, NumPy, Matplotlib, Seaborn, Plotly
- Tools Used:** VS Code, GitHub, Jupyter Notebook, Streamlit, MySQL Workbench
- Coursework:** Foundations of Data Analytics, Artificial Intelligence, Design and Analysis of Algorithms, Data Structures & Algorithms, Object-Oriented Programming, Database Management Systems, Machine Learning
- Interests:** Web Development, Data Science, Data Analysis
- Coding Profiles:** LeetCode (Rating : 1536), Geeks for Geeks (Rating: 1352), CodeChef (Rating: 1300)

PERSONAL PROJECTS

•Weather Classification

- Developed and trained deep learning models, including a VGG16-based transfer learning model (98% accuracy) and CNN (94% accuracy), classifying weather conditions such as sunny, cloudy, rainy, and snowy.
- Built a web interface with HTML, CSS, and Flask, enabling users to upload images and receive weather classification results in under 2 seconds per image.
- Technologies Used:** VGG16, CNN, HTML, CSS, Flask

•Medical Insurance Estimator

- Built a Medical Insurance Finder to estimate insurance costs based on inputs like age, sex, BMI, and smoking status. Achieved a Mean Absolute Error (MAE) of 5000, with Support Vector Regression (SVR) delivering the best performance among evaluated models.
- Designed an interactive web interface using Streamlit and custom CSS, facilitating seamless user interaction and efficient model deployment. The platform attracted over 500 users within the first month.
- Technologies Used:** SVM, Random Forest, Linear Regression, Decision Tree Regressor, Streamlit, CSS

•Bus Reservation System

- Designed an interactive web-based platform enabling users to search routes, view schedules, and book seats, simplifying bus ticket management for users and administrators, resulting in a 30% reduction in booking time.
- Implemented a responsive, user-friendly interface to enhance booking efficiency, leading to a 20% increase in user satisfaction and engagement.
- Technologies Used:** HTML, CSS, JavaScript, PHP

•Olympic Data Analysis Project

- Analyzed data from 200+ countries and 11,000+ athletes, highlighting medal tallies, top nations (USA, Russia), standout athletes (Michael Phelps, Usain Bolt), and dominant sports from 1900 to 2016.
- Conducted gender analysis revealing a rise in female participation from 2.2% in 1900 to 45% in 2016, showcasing improved gender balance throughout Olympic history.
- Technologies Used:** Python, NumPy, Pandas, Streamlit, CSS

ACHIEVEMENTS

- Secured **1st Position** in the VIT-AURA Codeathon organized by the Placement Department of VIT-AP University.
- Secured **1st Position** in the CSI's "Snakes and Coders" Codeathon at VIT-AP University.
- Secured **3rd Position** in VIT-AP University's TechSprint Hackathon by presenting a performance-enhancement solution for IPL teams, offering strategic insights for analysts and fitness coaches.

CERTIFICATIONS

- SmartInternz – Applications of Artificial Intelligence and Machine Learning with Applied Data Science.
- Board Infinity – Data Structures and Algorithms.