K Bhaskar Chari

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Education

Vellore Institute of Technology — **Bhopal, Madhya Pradesh**
B.Tech - Computer Science Engineering(AIML) - ***CGPA - 8.1*** — *Oct 2022 - May 2026*

FIITJEE Junior College — **Hyderabad, Telangana**
Higher Secondary - ***Percentage - 89%*** — *Aug 2021 - May 2022*

FIITJEE World School — **Hyderabad, Telangana**
*High School -****CGPA - 10*** — *Jun 2019 - May 2020*

Technical Skills

Languages: Python, C++, Java
Tools: Git, GitHub, MySQL, Jupyter Notebook, PowerBI
Libraries: TensorFlow, PyTorch, Scikit-learn, Pandas, NumPy, Matplotlib, MediaPipe, PyQt5, CatBoost
Core Concepts: Machine Learning, Neural Networks, NLP, Computer Vision, Promt Engineering, GenAI, OOP
Spoken Languages: English, Hindi, Telugu, Marathi

Projects

Crop Yield Prediction using ANN (LINK)

- Engineered an ANN-based crop yield forecasting system by integrating multi-factor environmental and agricultural data, improving prediction accuracy by 10–15% compared to traditional ML models.
- Orchestrated a complete ML training pipeline using Python, TensorFlow, and Scikit-learn, optimizing data preprocessing and hyperparameters to reduce model training time by 20% and compute cost by 10%.

TarangAI (LINK)

- Built a deep-learning-based Indian classical dance classification model by combining MediaPipe pose extraction with feature engineering and multi-output neural networks, achieving 89% classification accuracy across multiple dance styles.
- Developed a Pose Refinement GAN to correct user dance poses in real time using pose-skeleton inputs, enhancing recognition quality by 25% and improving feedback accuracy on posture, mudras, and facial expressions.

Stock Market Analysis & Prediction (LINK)

- Engineered a stock price forecasting application using ARIMA, Linear Regression, Random Forest, and ensemble ML models, resulting in 94% prediction accuracy.
- Implemented a complete time-series prediction pipeline with Scikit-learn, Statsmodels, Pandas, and NumPy, reducing preprocessing and feature-generation time by 25%.

SentimentR (LINK)

- Developed a sentiment analysis system using TF-IDF features and ML models such as Logistic Regression and SVM, achieving 91% accuracy on text classification tasks.
- Tailored the prediction model using Logistic Regression, Naïve Bayes, and Random Forests, boosting F1-score by 10% after optimizing feature extraction and hyperparameters.

Achievements

- Python Gold Badge on HackerRank
- National Finalist in Health Hackathon organized by Johns Hopkins University and VIT Bhopal
- Lead the Design Team Vitronix Club in College
- Completed Machine Learning & Self-Driving Cars: Bootcamp with Python from Udemy
- Completed Generative AI from Udemy