BANDARU VIGHNESHWAR RAO

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SUMMARY

Computer Science and Engineering student specializing in AI & ML, skilled in Python, SQL, and data analytics. Experienced in machine learning, deep learning, and full-stack project development using Flask and FastAPI. Passionate about building scalable, real-world solutions through data-driven insights and modern tech stacks.

SKILLS

Programming Languages: Python, SQL, C, Java
Libraries : Numpy, Pandas, Matplotlib, Seaborn, Scipy
Web & Backend Frameworks: SQLAlchemy, FastAPI
Database & Cloud: MySQL, AWS (EC2,S3,RDS), Render
Tools & Platforms : Git, GitHub, Jupyter Notebook, PyCharm, Power BI, Excel

EDUCATION

CMR Institute of Technology, Hyderabad.   **Dec 2021-Present**
B.Tech, Computer Science & Engineering(AI & ML) , CGPA:8.32

Sri Chaitanya jr. College , Hyderabad.   **June 2019 -April 2021**
Intermediate , Percentage:95%

Manasa High School, Jagtial .   **June 2018-April 2019**
SSC , GPA:9.8

PROJECTS

A/B Testing Platform for Experiment Analysis– *Personal Project*   **May 2025-June 2025**
FastAPI, Python, MySQL (AWS RDS), AWS S3, Pandas, Matplotlib, Seaborn, Scipy, HTML, CSS, JavaScript

- *Built a full-stack A/B Testing platform with a FastAPI backend and GitHub Pages frontend, allowing users to upload CSVs, run statistical tests (T-Test, Chi-Square), and visualize results..*
- *Integrated AWS S3 and RDS to manage file storage and relational data; backend extracted 20+ variants and metrics dynamically, storing and analyzing results using SQLAlchemy and Scipy.*
- *Deployed backend on Render and enabled real-time result visualization through backend-generated plots and statistical summaries, cutting manual analysis time by 90%.*

CalorieTrack – *Final Year Academic Project*   **Jan 2025-April 2025**
Python, TensorFlow, Keras, Flask, MobileNetV2, Pandas, OpenCV

- *Built a deep learning-based food recognition system using MobileNetV2, achieving 98% validation accuracy across 101 food categories with real-time calorie estimation.*
- *Developed a responsive Flask web app that processes user-uploaded images and displays instant nutritional information by integrating the USDA API.*
- *Contributed to image preprocessing, model training, and backend integration, optimizing the system for <2-second inference time and visual nutrient breakdowns.*

Cricket Analytics – *Personal Project*   **Feb 2025-March 2025**
Python, BeautifulSoup, Selenium, Pandas, FastAPI, Render, HTML, CSS, JavaScript

- *Developed a data-driven cricket team selector to generate India's all-time best XI across formats using custom weighted scoring, performance metrics, and dynamic role-based filters.*
- *Scraped player stats from ESPNcricinfo using BeautifulSoup and Selenium, followed by data cleaning, EDA, and feature engineering with Pandas for role-wise selection optimization.*
- *Built a FastAPI backend deployed on Render, and integrated it with a responsive HTML/CSS/JS frontend, enabling users to customize team selection based on batting depth, spinners, and pacers.*

Online Retail Sales Analysis – *Personal Project*   **Dec 2024–Jan 2025**
Python, Pandas, Matplotlib, Seaborn

- *Cleaned and analyzed a dataset of 500K+ rows, performed RFM and churn analysis, and visualized key metrics to support business decisions using Python, Pandas, and Matplotlib.*