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LinkedIn | Portfolio | Medium

SUMMARY

Computer Science graduate with a specialization in Artificial Intelligence and Machine Learning. Experienced in machine learning, statistical analysis, and backend deployment. Built and deployed real-world projects including a house price prediction system and a full-stack A/B testing platform using Python, scikit-learn and FastAPI. Strong in data preprocessing, model development, and translating data into scalable solutions.

SKILLS

Programming Languages*: Python, SQL, C, Java*
Libraries: Numpy, Pandas, Matplotlib, Seaborn, Scipy, Scikit-learn
Web & Backend Frameworks: SQLAlchemy, FastAPI
Database & Cloud: MySQL , Render
Tools & Platforms: Git, GitHub, Jupyter Notebook, PyCharm, Power BI, Excel

EDUCATION

CMR Institute of Technology, Hyderabad.   **Dec 2021-July 2025**
B.Tech, Computer Science & Engineering(AI & ML) , CGPA:8.22

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

PROJECTS

Bangalore House Price Prediction System – Live link | *Github* | Blog   **July 2025**
FastAPI, Python, Scikit-learn, Pandas, NumPy

- *Developed an end-to-end machine learning solution achieving 84% R^2 score, trained on Kaggle's real estate dataset with 1,300+ location-based features after rigorous preprocessing and outlier removal.*
- *Implemented a production-grade FastAPI backend and dynamic JavaScript frontend, allowing users to predict house prices in real-time based on inputs like BHK, area, location, and bathrooms.*
- *Optimized the deployment pipeline by serializing model artifacts (model.pkl, columns.json) and hosting the frontend via GitHub Pages, enabling zero-cost, real-time ML inference in the browser.*

A/B Testing Platform for Experiment Analysis– Github | Blog   **May 2025-June 2025**
FastAPI, Python, MySQL (AWS RDS), AWS S3, Pandas, Matplotlib, Seaborn, Scipy

- *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%.*

Cricket Analytics– Live link | Github   **Feb 2025-March 2025**
Python, BeautifulSoup, Selenium, Pandas, FastAPI

- *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 –Github   **Jan 2025-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.*