Sagar Rajak

github sagarportfolio.com linkedin/sagar-rajak sagarrajak245@gmail.com Mo: 8669101264

Education

Vivekanand Education Society's Institute of Technology, Chembur, Mumbai May 2025
Bachelor of Engineering in Artificial Intelligence and Data Science *GPA: 9.2/10*

MHT-CET
Score: 97.25 Percentile

HSC (Maharashtra State Board)
Percentage: 81.50%

SSC (Maharashtra State Board)
Percentage: 88.40%

Skills

Languages: C/C++, Dart, Python, Java, JavaScript,Typescript, HTML,CSS,SQL
Frameworks/Tools: Git, GitHub, Flutter, Unix Shell, React js, Flask, jenkins, Lang-chain, Crew-ai , Numpy, Seaborn, Sickit-learn, LLM Models, Pandas, Pytorch.

Database: Mongodb, Sqlite, Mysql, PostgreSql

Experience

AI-Colegion | *Sr. Technical Officer* Aug 2023 – Present
- Served as a technical officer, collaborating with members on MERN stack projects.
- Conducted a Flutter workshop for 180+ students, contributing as an instructor.
- Led a Machine Learning workshop for 100+ students, teaching foundational ML concepts.

CSI-Vesit | *Jr.Technical officer* Oct 2023 – May 2024
Served as jr technical officer and worked with team members to manage ai powered csi app and conducted open cv workshop for approx 180+ students contributed as teaching assistant.

Projects

Spotify song classification | python,numpy,pandas,seaborn, sci-kit learn github
- Classified song was hit or not using logistic regression technique, applied python,numpy, pandas and seaborn for EDA of dataset
- Learnt about odds of data in classification , how log of odds fits in regression, what is one Hot encoding.
- Contributed in classification of hit songs and developed model which classifies songs with 99 accuracy level.

Crew AI Agents | crewAi ,python,LLm Models,Scraping-tools github
- Developed Multi-agents system using crew ai library, agent where acting as researcher ,writer and editor.
- Created research,writing,editing automated system using LLM models and Crewai library

Global GDP Per Capita Analysis (1960–2023) — India Focus | time-series, clustering, regression github
- Analyzed and visualized GDP per capita trends of 180+ countries from 1960 to 2022; highlighted global economic disparities in 2022 using bar charts.
- Predicted 2023 GDP per capita using Linear Regression and Random Forest; evaluated using MAE, RMSE, and R^2 Score.
- Clustered countries based on predicted 2023 GDP using K-Means; visualized economic groupings via PCA; optimized with Silhouette Score.
- Conducted leadership-based GDP trend analysis for India; calculated CAGR for each Prime Minister and modeled future growth using Logistic Regression.
- Created timeline visualization mapping India's GDP growth under various political regimes; evaluated predictive model with accuracy and confusion matrix.

Certificates & Awards

- NVIDIA: Anomaly Detection (DL)
- NVIDIA: Fundamentals of DL
- MATLAB: Machine Learning
- MATLAB: Data Visualization
- AWS: Cloud Fundamentals

Awards: Best Technical Speaker – Awakening the Scientist, Dalal Street Finalist (Trade Game), MHT-CET Rank: Top 5k of 300k.