

Veer S. Raje

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Education

B.Tech Artificial Intelligence & Data Science, CGPA: 8.66/10, University Of Mumbai (Dwarkadas J Sanghvi College of Engineering). 2022- Present

MHT-CET Score: 95.67 %tile all over Maharashtra. Completed in 2022

ICSE 10th Board Examination: 94.20% Arya Vidya Mandir Bandra (West). Completed in 2020

Experience

DJS NSDC, Creatives Core Member April 2024 - Present

- Led a team of creatively inclined juniors in organizing various college events.
- Contributed to the design of the committee's website.
- Promoted and fostered teamwork among juniors working in the Creatives sub-committee.

DJS InfoMatrix, Machine Learning Mentor May 2024- Present

- Enhanced leadership and public speaking abilities while deepening knowledge in Machine Learning and Deep Learning.
- Mentored juniors enrolled as mentees, imparting the same concepts through structured teaching.
- Implemented a project-based learning approach, providing practical insights into real-world problems and their solutions.

Projects

Predicting SpaceX Falcon 9 First Stage Landing Success

- Analyzed SpaceX Falcon 9 flight data to predict reusable first-stage landings, aiming to reduce space mission costs.
- Collected data through APIs and web scraping, followed by extensive cleaning and feature engineering.
- Performed exploratory data analysis with SQL and Python (Pandas, Numpy, Matplotlib, Seaborn, Folium, Plotly) to identify key trends and variable relationships.
- Trained and optimized machine learning models, enhancing predictive accuracy through iterative hyperparameter tuning.

Breast Cancer Data Analysis

- Conducted a comprehensive analysis of medical reports from breast cancer patients using Pandas.
- Compared the findings for Matplotlib visualizations reports of healthy individuals to identify key differences.
- Identified and tried to deduce the causes of various types of breast cancer based on observed trends in the data.

Sentiment Analysis based on user's text messages

- Developed a sentiment analysis model with NLTK for text preprocessing (e.g., stop word removal, POS tagging, lemmatization).
- Trained multiple models, with Bidirectional LSTM achieving the best results.
- Deployed the model as an API using FastAPI and Docker for streamlined access and scalability.

Racing Line Prediction for Formula 1 Onboard Footage

- Developed a semi-supervised U-Net and LSTM-based model to predict continuous racing lines from onboard F1 footage.
- Used U-Net to detect car nose position in each frame and LSTM to predict subsequent positions for smooth trajectory.
- Preprocessed over 26,000 frames for model training, achieving real-time frame-by-frame racing line predictions. Final model successfully predicts optimal racing paths.

Certifications

Postman API Fundamentals Student Expert [Credential URL](#)

Google Image Based Search and Image Classification Badges [Credential URL](#)

Google Cloud Skill Boost Certifications [Credential URL](#)

Data Science and Machine Learning Capstone Project by IBM [Credential URL](#)

Skills

Languages: Python, Java, C, SQL.

Frontend: HTML, CSS, Bootstrap, TailwindCSS, JavaScript, React, React Native.

Backend: FastAPI, MySQL, MongoDB.

Data Science: PowerBi, BeautifulSoup, Pandas, NumPy, Matplotlib, Seaborn, Folium, Plotly, Scikit Learn, TensorFlow.

NLP & Computer Vision: NLTK, Spacy, OpenCV.

Others: Git, GitHub, Postman, Docker, Figma, Adobe After Effects.