

Rohan Parte

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Analytical and results-driven machine learning engineer with a passion for utilizing data to drive business outcomes. Extensive experience in developing, deploying, and optimizing machine learning models and data-driven solutions. Proficient in leveraging advanced analytics and visualization tools to provide actionable insights and support strategic decision-making. Adept at collaborating with cross-functional teams and communicating technical concepts to non-technical stakeholders.

Education

University of Mumbai

2014 – 2018

Bachelor in Science – Computer Science

- National Level Baseball Player
- Head of Computer Society of India and Sports Club
- Courses: AI, Machine Learning, Introduction to Data Science, Big Data Analytics, Social Media Analytics, Visual Analytics.

Professional Experience

Hudl

Elite Project Analyst

April 2023 – Present

- Extracted and preprocessed data from tagged video datasets, ensuring accuracy and completeness, which streamlined the data collection process and improved data integrity.
- Conducted comprehensive exploratory data analysis (EDA) using statistical methods and data visualization techniques to uncover patterns and trends, informing the development of targeted visualizations.
- Designed and implemented interactive dashboards and reports in Power BI, highlighting critical data points and trends, which enabled stakeholders to focus on crucial data.
- Influenced strategic business decisions by presenting key insights from data-driven strategies to the executive team, resulting in a 20% increase in sales revenue.

Sports Data Analyst

June 2021 – March 2023

- Utilized specialized video tagging software to accurately tag and annotate sports videos, ensuring precise data collection for further analysis.
- Stored tagged data in Excel, performing data processing and cleaning to prepare the dataset for in-depth analysis.
- Conducted detailed data analysis using Excel, Python, and SQL to uncover performance trends and key insights, enhancing the understanding of team and player performance.
- Collaborated closely with team members and coaches to interpret analytical results and provide actionable insights, contributing to the development of effective strategies and performance improvements.
- Created comprehensive reports and visualizations using Power BI to present findings, enabling stakeholders to make informed decisions based on data-driven insights.

Projects

Capstone: Real-Time Sign Language to Speech Translation (Word-Level)(Ongoing)

- Developed a real-time sign language to speech translation system using the I3D model, fine-tuned on the WLASL dataset, achieving 52% accuracy through cross-validation and hyperparameter optimization.
- Implemented video preprocessing to enhance input quality, using MediaPipe to detect hand movements, which triggers frame capture only when hands are detected. This approach saves computational power and provides faster output. The frames are then processed by the I3D model for word prediction.
- Integrated the I3D model with gTTS for text-to-speech conversion and implemented a confidence threshold. Low-confidence words are sent to ChatGPT 3.5 with previous predictions for context-aware correction.
- Currently improving the dataset by adding bounding boxes around hands and using a state-of-the-art model (e.g., Pose-TRAN, MS-HRNet) to retrain for better accuracy.

Technical Expertise

Programming Languages: Python, C/C++, SQL, HTML, CSS

Libraries: Scikit-learn, NumPy, Pandas, Matplotlib

BI and Visualization Tools: Tableau, Power BI