DHRUV SINGH

Data Science, Machine Learning, Artificial Intelligence

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EDUCATION

Parul Institute of Engineering and Technology, Vadodara   2021 − 2025
B.Tech - Computer Science and Engineering - ***CGPA*** *-* ***7.68***   *Vadodara, Gujarat*

EXPERIENCE

Intern at Gfuture Tech Pvt.Ltd ⬈   **Jan 2025 - Mar 2025**
Role - Machine Learning Intern   *Ahemdabad*

- **Built** a **comprehensive AI medical assistance application** using **Gemini 1.5 Flash**, leveraging **Python**, **TensorFlow**, and **scikit-learn** for advanced diagnosis.
- **Optimized** model performance by integrating **Hugging Face**, **bitsandbytes**, and **PEFT** libraries, reducing latency.
- **Fine-tuned Qwen 2.5-Math** on an **algebra dataset** to create a robust **problem-solving application** for complex equations.
- **Implemented Transformers** to ensure reliable **NLP** capabilities, delivering efficient solutions with minimal resource usage.
- **Automated MLOps pipelines** using **MLflow** and **Docker** to streamline **model training** and **deployment** for production.

Intern at IndiXpert Pvt.Ltd ⬈   **Oct 2024 - Dec 2024**
Role - Data Science Intern   *Gurgaon*

- **Performed** in-depth IT Business Research and applied **data-driven insights** to real-world scenarios, enhancing **data analysis**, **predictive modeling**, and **problem-solving** skills.
- **Coordinated** tasks efficiently, maintained professionalism, and demonstrated strong **time management**, **data visualization**, and **analytical thinking** to meet deadlines and deliver quality work.

Intern at Suvidha Foundation ⬈   **May 2024 - June 2024**
Role - Machine Learning Engineer   *Pune*

- **Designed** a **News recommender system** for personalized news article suggestions, leveraging advanced **machine learning algorithms** and **content-based filtering**.
- **Scraped data** from multiple online sources using **BeautifulSoup** and **Selenium**, **constructing** a high-quality **news article dataset** for model training and evaluation.
- **Applied** cosine similarity algorithms to calculate vector similarities, significantly improving the accuracy of **recommendation systems**.

PROJECTS

Posture Detection Model ⬈ |

- **Deployed** the PoseNet model using **TensorFlow.js** and **Keras**, tracking real-time user postures and improving pose detection accuracy by **15%**.
- Analyzed posture data with **NumPy**, **Pandas**, and **Matplotlib** to identify patterns and trends, refining the model's accuracy over time.
- Visualized key points and connections on-screen using **OpenCV**: rendered these detected points and connected them visually, giving real-time feedback on the user's posture and positioning.
- **Collaborated** with cross-functional teams to integrate posture detection into an existing web application, reducing deployment time.

Style Stitch ⬈ |

- Developed a weather-based fashion recommender system using real-time data from **OpenWeather API** to provide personalized clothing suggestions based on temperature, season, and weather conditions.
- Integrated a **machine learning model** trained on season and clothing data, deployed with **Streamlit** for an interactive user experience.
- Streamlined deployment workflow using **Python**, **Scikit-learn**, and **Heroku**, enabling dynamic and accessible suggestions online.

TECHNICAL SKILLS

Skills: MLOps, Data Science, Machine Learning, Data Analytics, Deep Learning, NLP, SQL, Docker, AWS
Languages: Python, Java, C Programming
Technologies/Frameworks: TensorFlow, Sci-Kit Learn, NumPy, Pandas, React, MongoDB, JavaScript

CERTIFICATIONS

- Supervised Machine Learning - Coursera
- Data Analytics - Python (FreeCodeCamp)
- Python Certified - HackerRank
- Problem Solving - HackerRank