JUGAL PATEL

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Objective

ML/DL Enthusiast with a keen interest in the field of Data Science and Analytic

Education

Nirma University, Ahmedabad   **2020 − 2024**
Bachelors in Computer Science and Engineering   *CGPA(upto 6th semester:7.22)*

Relevant Coursework

- Data Structures and Algorithm
- Machine Learning
- Object Oriented Programmig
- Deep Learning
- Big Data Analytics
- Database Management System
- Computer Architecture

Technical Skills

Languages/Database: C, C++, Python, SQL , Java , MySQL
Web Technologies: HTML , CSS , JavaScript
Software & Tools: Microsoft Excel , Tableau , Google Data Studio , Hadoop , Unreal Engine

Experience

OneKnotOne Technologies LLC   **May 2023 − July 2023**
VR and AI intern   *Vadodara*

- * Developed an immersive virtual reality (VR) action game using **Unreal Engine and Blueprints**, offering players an engaging and interactive gaming experience.
- * Conducted Sentiment Analysis on customer reviews regarding architectural services, providing **valuable insights** into customer satisfaction and contributing to data-driven decision-making.

Projects

Attendance System Using Face Recognition   **July − Sept 2023**

- * Developed a comprehensive Face Attendance System using **Python's OpenCV library** for face recognition, MySQL for student data storage, and Tkinter for the graphical user interface (GUI).
- * Implemented a secure registration process for capturing and storing student information, including names, student IDs, and images, directly into a MySQL database.
- * Utilized OpenCV's face recognition module with the **LBHP classifier** to identify and verify student faces during attendance tracking.

American Sign Language Interpreter   **Feb − April 2023**

- * Gathered and processed more than 30,000 data images from the ASL dataset.
- * Employed various data cleaning techniques, including binning, cropping, and one-hot encoding, to optimize data for **deep learning models**.
- * Applied various deep neural models such as **AlexNet , ResNet , VggNet** and compared their accuracy

Diabetes Prediction System   **Dec − Jan 2022**

- * Conducted an in-depth analysis of Type 2 Diabetes among women above 21 years of age using a Kaggle dataset.
- * **Data visualization** using histogram and scatter plot, Correlation Analysis and PCA performed.
- * **Classification Algorithms** employed: Logistic Regression, KNN, Naive-Bayes, SVM, Decision Tree and Random Forest. Random Forest model used generated highest accuracy of 83.7 percent

Web-Based Calculator Implementation   **May − June 2022**

- * Developed a functional web-based calculator using **HTML, CSS, and JavaScript**.
- * Utilized JavaScript to handle input, perform calculations, and display results.
- * The calculator supports **basic arithmetic operations** (addition, subtraction, multiplication, and division) following standard precedence rules (BODMAS).

Extra-Curricular Activities

National Service Scheme(NSS): As a board member of the NSS chapter at Nirma University, actively participated in our institute's Corporate Social Responsibility (CSR) initiatives, including the adoption of a local village. Engaged in regular visits to the village, focusing on imparting moral values and ethical principles to the primary school students. Simultaneously, we promoted sports awareness alongside academic education to support the holistic development of the community. This role highlighted our commitment to fostering well-rounded education and ethical values within the adopted village.