Heer Patel

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EDUCATION

The Maharaja Sayajirao University of Baroda

Gujarat, India

Diploma - Computer Engineering; Percentage:

August 2019 - June 2022

Courses: Operating Systems, Data Structures, Database Management Systems, Artificial Intelligence, Computer Networks, Unix/Linux, Web Development, C, C++, Java

SKILLS SUMMARY

• Languages: Python, C, C++, Java, SQL, HTML, and CSS

• Frameworks: Scikit-Learn, Pandas, Matplotlib, Streamlit, Flask, Jekyll, Rasa, Seaborn, and NumPy

• Tools: Docker, GIT, MySQL, SQLite, Jupyter, and VSCode

Platforms: Linux, Web, and Virtual Machines

 Soft Skills: Leadership, Writing, Time Management, and Goal Oriented

Academic Projects

Student Developer

HoneyComb NLU Chatbot

Python, Matplotlib, Rasa, Pycord

Jan 2022 - Mar 2022

o Cryptocurrency oriented chatbot: Collaborated with a team of 3 to create a cryptocurrency oriented chatbot with NLU capabilities hosted on Discord using Pycord framework.

- REST API for NLU pipeline: Created an NLU pipeline as a RESTful API in Rasa framework with efficient, extensive, and modular intent-entity classification, and error handling.
- o NLU Docker Containers: Implemented Docker containers for the NLU pipeline to cross-compile and run on ARM64 architecture.

Personal Projects

Covid Vaccinations Analysis and Prediction

Python, Jupyter, Matplotlib, Scikit-Learn, NumPy

Student Developer

May 2021

- o Preprocessing and Analysis: Preprocessed and analysed COVID Vaccination data from the dataset provided by Our World In Data.
- o Data Visualization: Performed data visualization and implemented Multi-layer Perceptron model for Regression using Scikit-Learn and Matplotlib.
- Hyperparameter Tuning: Implemented hyperparameter tuning and cross-validation to find the best hyperparameter combinations.

200iq Calculator Python, Kivy Oct 2020

Student Developer

- o Front-end Widget/Layout Design: Designed an aesthetic, accessible and complex calculator front-end using widgets and layouts in Kivy along with proper exception handling and popups.
- o Infix Expression Evaluation Algorithm: Implemented an algorithm for infix expression evaluation from scratch in Python.
- o Modular development: Maintained a modular and clean approach in linking the backend, frontend, and different components.
- Executable File: Created an executable file from Python to open the calculator directly.

Personal Website Student Developer

Jekyll, HTML, CSS, JavaScript

Jul 2021 - Present

• Website Composition and Design: Designed and created a personal website from scratch using Jekyll, HTML, and CSS.

- Efficient Templates and Layouts: Created an about page, posts page, and repositories page using a modular and efficient approach by creating common templates and layouts.
- o Modular Approach: Implemented different layouts and templates such as navigation bar, blog pages, index page and particular CSS files to accompany the particular page.
- o Aesthetic and Sleek Design: Designed a sleek, aesthetic, and appropriate front-end starting from the component positioning to the fonts and the color palette.
- Machine Learning Algorithms from ScratchPython, Jupyter, Matplotlib, NumPy, Scikit-Learn, Seaborn, Pandas Student Developer
 - o Linear and Logistic Regression: Implemented widely used algorithms like Logistic Regression and Linear Regression from scratch using NumPy.
 - Data Visualization: Performed data visualization on the model and the data to observe the structure of the dataset.
 - Regularization: Added different techniques such as vectorization, regularization, and various loss metrics.
 - o Modular Design: Designed modular and usable classes for each algorithm.