**SAI VASISTA TADANKI**

**EDUCATION**

* **M.Tech Computer Science and Engineering**

**CGPA – 8.2 / 10 2019-2023**

Amrita Vishwa Vidyapeetham

* **MCA**

**CGPA – 9.12 / 10**

* **BSc Mathematics, Statistics, CSE**

**CGPA – 8.9 / 10**

* **Class 12** – 76% **2019**

Institution:

* **Class 10** – 77% **2017**

Institution:

**TECHNICAL INTERESTS**

Machine Learning, Data Analysis

**PROJECTS**

**AI Based Personal Assistant**

Programming language : Python.

Developed a feature-rich smart assistant by utilizing libraries like pyttsx3, speech\_recognition, and smtplib for text-to-speech conversion, voice recognition, and email functionality, respectively. The assistant offers voice customisation, basic games, and integration with external resources like movie details and text translation.

**Smart Crop Development Monitoring**

Programming language: Python, Microsoft Azure, PowerBI. Developed a monitoring system. Simulated data was generated from TinkerCAD and an IoT hub was created in Microsoft Azure. Utilized machine learning algorithms and data analytics to optimize crop production and visualized the data in PowerBI.

**Netflix Data Analysis**

Programming language: Python.

Analyzed Netflix customer behavior using Python and implemented content-based recommendation and collaborative filtering techniques to provide personalized recommendations. Additionally, performed a cost analysis using GDP data from different countries to gain insights into how Netflix’s pricing strategy varies across different markets.

**Weather forecasting in Blockchain**

Programming language: Python, Flask, Html.

The project focused on recording and storing high and low temperature data for each day, along with the average of those temperatures, into a block on the blockchain. This ensures that weather data is securely and transparently recorded, with smart contracts used to automate the forecasting process.

**Blockchain Technology and Machine learning in Health Care**

Programming language: Python, Django, Solidity.

The project involved enabling cryptographic techniques to encrypt data for secure storage on the blockchain. Machine learning algorithms applied to the data for predictive analysis.

**TECHNICAL SKILLS**

Python, C, Java, MySQL, CSS, Tableau, PowerBI, HTML

**INTERNSHIP**

**INFINEON TECHNOLOGIES**

August 2022 – Present Bangalore – KA

During my internship, I had the opportunity to develop the "Random Configurations" automation process, which allowed for greater diversity in chip configurations and improved process efficiency. Through the use of dynamic scripts, I successfully randomized parameters and dependent variables, contributing to these positive outcomes. In addition, I gained experience in Python's string-matching capabilities while working on the "Reserved Bit Handling" project. This involved accurately identifying reserved bits and converting them into binary and hexadecimal representations, enabling meticulous analysis and valuable insights. I also utilized Python's fuzzy logic to conduct text analysis on related files, extracting meaningful information from unstructured data. These experiences have enhanced my Python programming skills and provided a strong foundation in automation, data analysis, and problem-solving, positioning me as a versatile and competent candidate.

**CERTIFICATIONS**

Architecting with Google Compute Engine: Coursera verify certificate here

Introduction to cloud IBM certification

Building an Ethereum Blockchain – LinkedIn Learning

Being an Effective Team Member – LinkedIn Learning Diploma in Java Programming

Diploma in C with Data Structures

**LANGUAGES**

English, Telugu