Masood Rahman

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EDUCATION

YMCA University — **Faridabad, Haryana**
B.C.A in Data Science Specialization (CGPA: 7.0/10) — *Aug 2020 - July 2023*

Satyug Darshan Vidyalaya, CBSE — **Faridabad, Haryana**
Senior Secondary XII, Science (CGPA: 7.6/10) — *April 2018 - March 2019*

Satyug Darshan Vidyalaya, CBSE — **Faridabad, Haryana**
Secondary X (CGPA: 5.8/10) — *April 2016 - March 2017*

PROJECT UNDERTAKEN

Scientific Calculator (Language: Python)

- Developed a comprehensive scientific calculator using Python and the Kivy framework, designed to handle advanced mathematical computations.
- Created this robust, user-friendly application with a focus on linear algebra, calculus, and statistics/probability.
- Deployed this project on GitHub to ensure seamless collaboration and continuous integration.

Virtual Assistant (Language: Python)

- Developed a sophisticated Virtual Assistant in Python to enhance the functionality of a personal operating system.
- Designed the assistant in a way that it integrates multimedia controls, allowing users to play songs and videos seamlessly.
- It supports social media platforms such as WhatsApp, Instagram, Facebook, and Telegram, enabling users to login and manage their accounts efficiently.
- The assistant has communication features that include making phone calls directly through the assistant, it is also equipped with real-time weather data retrieval and analysis capabilities, providing accurate weather reports and predictions. It can gather and present information from Google and Wikipedia ensuring users have access to a wide range of data.
- The assistant calculates and reports health metrics using real-time data from smart watch sensors, promoting proactive health management.

Object Detection by Virtual Assistant (Language: Python)

- Developed an advanced Object Detection module for Virtual Assistant using Python and Kivy for the GUI.
- The project leverages deep learning algorithms such as Artificial Neural Networks (ANN), Recurrent Neural Networks (RNN), and Convolutional Neural Networks (CNN) to accurately identify and provide information about various objects.
- The module includes functionalities for recognizing car models and famous celebrities, as well as accessing data for a wide range of objects.
- I have hosted this project on GitHub, ensuring easy access, collaboration, and version control.

Real Time Weather Data Analysis (Language: Python)

- Designed and implemented a Real-Time Weather Data Analysis system using Python to provide accurate and timely weather forecasts. The project involved scraping data from Zoom Weather using the Beautiful Soup package, followed by preprocessing and analyzing the data with machine learning algorithms.
- Developed Predictive models to forecast future weather conditions, providing valuable insights for decision-making. The processed data was stored in a MySQL database, ensuring efficient data management and retrieval.
- Utilized Power BI to create dynamic and informative visualizations, making the data accessible and easy to understand.
- Deployed this entire project on GitHub through a CI/CD pipeline, ensuring seamless integration, continuous delivery, and version control.

CERTIFICATIONS

- Amazon Web Services Big Data Specialty by Amazon Web Services (AWS) — **December 2020**
- Amazon Web Services Security Specialty by Amazon Web Services (AWS) — **December 2020**
- Amazon Web cloud computing Deployment specialty by Amazon Web Services (AWS) — **February 2023**

SKILLS & INTERESTS

Technical: C |Python (core)|DSA, OOP |Linear Algebra, Calculus, Probability, Statistics |Machine Learning (core)| Deep Learning (core) |NLP |Big Data |MySQL |Mongo DB, Kivy |Testing (Pytesting)|Cloud services (AWS)

Tools: Pandas, NumPy | Matplotlib, Seaborn, Plotly | Scikit-learn, TensorFlow, PyTorch |NLTK, SpaCy, transformers | Hadoop, Spark | Redshift, BigQuery | Beautiful Soup, Scrapy, APIs | PyCharm, VSCode, Jupyter Notebook, Spyder | Git, GitHub/GitLab | Jira, Confluence | Sphinx, MkDocs | SQL Injection

Interests: Software Development | Analytics | AI & ML | Cloud Computing | Cricket |Scuba Diving | Travel | Food & Culture