DIPEN REDDY PATIL

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Education:

Master of Engineering in Computer Science **08/2023 – 12/2024**
University of Cincinnati, Cincinnati, OH, USA

Bachelor of Engineering in Computer Science **08/2018 – 07/2022**
JSS Academy of Technical Education, Bangalore, Karnataka, India

Projects(personal/curricular):

- **Social Media Metrics Visualizer:**
  A personal project that helped me to interact with external APIs in this case I used Instagram to fetch real time data. Utilization of key python library, pandas helped in collecting, parsing through useful data which helped me understand the user metrics of that application, Flask was used for backend logic which fetches the real time data from Instagram, and matplotlib was used illustrate the charts and graphs which would highlight the user experience with said application.
- **Food Chatbot for customer support:**
  Developed an intelligent chatbot using Python and Natural Language Processing libraries like spaCy to provide dynamic customer support. As a result, the chatbot understands user queries and delivers context-aware responses. A Flask backend is also implemented to manage interactions and ensure seamless conversational experiences.
- **Live Weather Tracking:**
  Developed a python application that retrieves real-time weather information using the OpenWeatherMap API. The app allows users to input a city name and displays the current weather, including temperature, humidity, and weather conditions. Libraries like the “requests” and “tkinter” have been implemented to fetch the data from the API.
- **Analysis of customer feedback for e-commerce products:**
  Examined customer reviews from a publicly available Kaggle e-commerce dataset to uncover patterns in customer ratings and feedback. Utilized Pandas library for data cleaning, including resolving missing values and removing duplicates to ensure data quality and sentiment analysis was conducted using TextBlob to classify reviews into positive, neutral, or negative sentiments. Was able to create basic visualizations with Matplotlib to highlight key insights, such as common customer issues and overall satisfaction trends.
- **File system monitor:**
  A personal project that is designed to keep track of each change made in the file system like creation, deletion etc. Utilized the help of a special library called Watchdog to achieve this task. Also implemented the use of another library called the logging module which keeps track and logs of the changes made to the file system and an OS module which would enable the user to interact with the file system.
- **Automated data extraction tool:**
  Another personal project designed extensively to collect data from different websites. Requests library was implemented to make this feasible. A special library called BeautifulSoup, plays a vital role in extracting useful data. For automation, a scheduled task is run on an hourly basis (windows task scheduler) and the extracted data is stored in a csv file.

Skills:

Languages: Python, HTML, CSS

Tools and Technologies: Flask, tkinter, pandas, matplotlib, TextBlob, Kaggle

Professional Training and certificates:

- Completion of the course "Applied data science with Python specialization" on Coursera:- This course gave me an in depth look at python libraries like NumPy and pandas which helped me develop a lot of projects. It gave me new founded confidence in working with unknown datasets.

- Certificate for the course "The complete Python Developer: Zero to Mastery" on Udemy: -
  This comprehensive course helped me in strengthening my core understanding of python and its associated libraries and tools. Various illustrations on software development using object-oriented programming were also stressed.

- Natural Language Processing with Python by Microsoft:
  Currently enrolled for this course, getting an in depth understanding of natural language processing and how it is currently helping companies like Microsoft to stay ahead of the competition in fields like AI, data science and cloud computing.

Extra-curricular Activities:

Art spark, Art spark Foundation, Bangalore **Dec 2021 – Dec 2021**

- Volunteered in an event where we had to paint murals on the walls of a kindergarten classroom.

All for Sport, Decathlon, Bangalore **Dec 2020 – Dec 2020**

- Participated in a 25 km run to help raise the funds in the development of Bannerghatta Forest

University of Cincinnati athletics, Cincinnati **Sep 2023-Apr 2024**

- Helped organize various events pertaining to co-curricular activities like prepping of football field for the home games, basketball court and coordinated in setting the stage for various events (e.g. Graduation, standup comedy.)