DEEKSHITH VENEPALLY

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Skills

Languages: Python, Java, C# R, SQL, HTML, CSS, JavaScript, TypeScript
Frameworks & Libraries: NumPy, Pandas, TensorFlow, Pytorch, Keras, scikit-learn, Apache Airflow, PowerBI, Angular, NodeJS, ExpressJS
Tools: MySQL, Git, Azure(Basics),Visual Studio, Spyder, Postman, Github, UiPath, Salesforce, MongoDB
Other Skills: Data Structures, Database Management, Machine Learning, Predictive Modelling, Applied Statistics.

Experience

Junior Full Stack Developer Aug 2021 to Jan 2023
Cognizant Technology Solutions.

- Headed the process and conducted a thorough work on a chatbot solution which was supposed to reduce end-user problems in a Java application (Comcast Java app).
- By making use of **NLTK**, lemmatization, and scikit-learn packages we were able to build a chatbot that had all the different features to answer the different queries that users would have.
- Formulated a question bank which catered to the requirements and encompassed all the scenarios that could transpire within the application.
- Succeeding the deployment, there was a noticeable drop in the number of reported problems by up to 60% and a marked augmentation of overall customer experience by up to 40%.
- Achieved an accuracy rate of 72% for the chatbot model which was considered very satisfactory for the effectiveness and performance of the user support processes.

Full Stack Developer Intern Jan 2021 to Jun 2021
Cognizant Technology Solutions

- Acquired training in Full Stack Development within 3-months, worked closely with 2 other trainees on development of an E-commerce website incorporating Angular and NodeJS (MEAN stack) within 1-week.
- Improved the user experience by creating a responsive and intuitive **Angular** front end, thus the performance was advanced through implementation of a robust **REST API**.
- Successfully raised API productivity by 30%, utilizing the capabilities of **Node.js** and **MongoDB**.

Projects

Advanced Image Caption Generation using Attention Mechanism

- Developed an image captioning system that leverages the combination of computer vision and language processing along with improvements in the encoder-decoder structure involving the **CNNs** and **LSTM** networks.
- I developed an attention mechanism that allows for greater accuracy and significance of captions as shown by the high BLEU score (50-55) that was constantly recorded during the process of evaluation.

Predicting RCS SIZE of Space Debris

- Demonstrated my knowledge of machine learning by delivering a project using multiple ML algorithms and achieved high accuracy scores ranging from 90% to 94% in predicting space debris Radar Cross Section sizes (RCS), reflecting advanced analytical and modeling methodologies.

Phishing URL Detection using Python and ML

- Constructed a decision tree model that can iterate through the criteria and recognize signs of fake URLs.
- Ensured the model's ability to distinguish between fake and real URLs by getting a 96% accuracy score.

Education

Masters in Data Science Jan 2023 - May 2024
Kent State University
GPA: 3.90/4

B.E in Electronics & Computer Engineering Aug 2017 - Jul 2021
Vellore Institute of Technology Chennai
GPA: 8.2/10