Lakshmi Bhavana Talapaneni

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Education

George mason university Fairfax,VA

Master of Computer Science and Engineering, GPA: 3.67/4 *Aug 2023 – Present*

Coursework: Natural Language Processing, Machine Learning, Computational Linguistics, Analysis of Algorithms, DMQL

Anna University Chennai, India

Bachelor of Technology in Computer Science Engineering, GPA: 3.65/4 *Aug. 2018 – Jun. 2022*

Coursework: Deep Learning, Data Structures and Algorithms, Python Programming, Object Oriented Programming, JAVA

Skills

- **Programming Languages:** C, Python, JAVA, Front-End Development
- **Frameworks:** PyTorch, TensorFlow, Keras, NLP, Transformers, Scikit-learn, Apache Hadoop, Apache Spark, Apache Hive

Experience

Microsoft Gold Partner

Machine learning with python, Intern *sep 2020 – nov 2020*

Owned Project: Unemployment due to covid in India using data analysis

- Collaborated with a team of data scientists and data engineers, to segregate customers of a website in the India Domain.
- Leveraged K-Means to segregate customers quantitatively and qualitatively, based on Geographic, Behavioral, Technographic info.

Tech Stack: Python, TensorFlow, PyTorch, Scikit-learn, Numpy, Plotly

Projects

TOURISM WEBSITE

- Led the end-to-end development and implementation of a tourism website aimed at promoting travel destinations and facilitating trip planning.
- Conducted comprehensive planning, outlining project objectives, identifying the target audience, and researching competitors to ensure a strategic approach.
- Designed an intuitive and visually appealing user interface, prioritizing mobile responsiveness and incorporating engaging visuals such as high-quality images, videos, and interactive maps.
- Integrated analytics tools such as Google Analytics to track user behavior, providing valuable insights for continuous improvement.

Tech Stack: HTML5,CSS, Bootstrap,Javascript node.js,python,Analytics

Sentiment Analysis of User Reviews on Movies

- Designed a system to automatically determine the sentiment) of user reviews on movies, facilitating a more streamlined understanding of audience reception.
- Conducted text cleaning, tokenization, and normalization; transformed reviews into numerical vectors using TF-IDF and word embeddings.
- Utilized N-gram analysis to identify sentiment patterns in user reviews. Employed word embeddings like Word2Vec to capture semantic relationships between words.
- Trained multiple machine learning algorithms including Logistic Regression, Random Forest, and LSTM Neural Networks, achieving peak accuracy of 92.3% with LSTM network.

Tech Stack: Python, Scikit-learn, NLTK, BeautifulSoup, TensorFlow/Keras.

Publication

BLIND HURDLE STICK: - Android Integrated Voice-based Intimation via GPS with Panic alert. – INT-JECSE Vol 14 Issue 02, 2022

- Engineered an Android application that leverages GPS technology for real-time location tracking, offering voice-based intimation to guide users safely through various environments.
- Implemented SIM card integration to enable real-time communication and emergency alerts, ensuring users can swiftly seek assistance in critical situations.
- Conducted rigorous testing and debugging to guarantee the reliability of GPS tracking, voice features, and SIM card functionality, addressing technical challenges for optimal performance.