JITESH PARAPOIL

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EDUCATION

Masters of Science, Computer Engineering Aug 2022 to December 2024
University of Central Florida.

Bachelor of Engineering, Computer Engineering Aug 2018 to Jun 2022
University of Mumbai. **GPA : 3.6/4**

SKILLS

- **Programming**: Python (NumPy, Pandas, Scikit-Learn, Seaborn, Matplotlib), Java, C++, C, Matlab, SQL.
- **Operating System**: Windows, Linux, Unix.
- **Applications**: Visual Studio, Git, Github, VMware, Virtualbox, AutoCAD.
- **Relevant Courses**: Machine Learning, Current Topics in Machine learning, Computer Vision, Data Preparation, Design and Analysis of Algorithms, Advanced Computer Architecture.

EXPERIENCE

Graduate Teaching Assistant - University of Central Florida May 2023 to Present

- Responsibilities included assignment assessment, grading, feedback, office hours, and hands-on programming support for the courses **Computer Science 1**, **Algorithms in Machine Learning**, and **Security in Computing**.

Data Science Intern - Gulb India Jan 2022 - May 2022

- Collaborated on the development of a Sentiment Analysis System using NLP to analyze extensive datasets, facilitating sentiment identification and refining data cleansing and keyword extraction workflows.
- Attained proficient skills in NLP, Label Studio annotation tool, and adeptness in data preprocessing, alongside mastery in applying diverse machine learning algorithms for precise text classification purposes.
- Actively involved in a machine learning project for inventory demand forecasting using lead generation data, focusing on data analysis, model development, and automation to enhance operational efficiency.

PROJECTS

Twitter Sentiment Analysis 2024

- Spearheaded the development and implementation of BERT and LSTM models for Twitter sentiment analysis.
- Achieved competitive accuracy in discerning nuanced sentiments from preprocessed textual data.

Biomedical Image Segmentation 2024

- Led the design and implementation of U-Net model for accurate segmentation of biomedical images.
- Achieved significant success in precisely outlining and segmenting structures within biomedical data, enhancing the diagnostic capabilities of the project.

Recommendation System for Online Retail Store 2023

- Employed BERT for meaningful data representations, capturing semantic relationships in user preferences and product features.
- Applied KMeans clustering on embeddings to enhance data analysis and improve recommendation capabilities.

Multi-Label Image Classification 2023

- Implemented a Vision Transformer for multi-label image classification, leveraging transfer learning to fine-tune models for improved accuracy.
- Conducted extensive data preprocessing to enhance ViT performance, elevating accuracy from 85% to 93%

PUBLICATIONS

- Parapoil, Jitesh et al. "Hotel Booking System". (2022) DOI: 10.17148/IJARCCE.2022.11409