Suresh Boppani

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Education

BTech **Indian Institute of Information Technology Sri City**, Computer Science — Dec. 2020 to May 2024

- GPA: 8.01/10.0
- **Coursework:** OOPS, Data Structures and Algorithms, Database and Management Systems, Computer Networks, Information Retrieval, Natural Language Processing, Artificial Intelligence...etc

Experience

Reliance, Jio Platforms Ltd, Data Science, Intern — Bengaluru, India, Jan 2024 to Present

- Generated actionable insights on energy consumption patterns, facilitating targeted energy management strategies and operational efficiencies.
- Developed deep learning models, achieving a remarkable 60% reduction in Mean Absolute Error (MAE) for energy dis-aggregation on smart meter data.
- Presented findings to stakeholders, fostering informed decision-making and paving the way for future innovations in smart energy management solutions.

Taxmann Technologies, Machine Learning Engineer, Intern — Remote, India, Oct. 2023 to Dec. 2023

- Utilized web scraping techniques such as Beautiful Soup to extract relevant data from the Mindler website, creating a comprehensive index using Elastic Search for efficient information retrieval.
- Integrated OpenAI for generating advanced embeddings, resulting in a 15% increase in the chatbot's natural language understanding and response capabilities.
- Implemented optimization strategies that improved the chatbot's response time by 20% and overall performance by 15%, providing users with a seamless and personalized career counseling experience.

Publications

A Bivariate Simultaneous Pollutant Forecasting Approach by Unified Spectro-Spatial Graph Neural Network (USSGNN) and its Application in Prediction of O_3 and NO_2 for New Delhi, India — Under Review

Subhojit Mandal, ***Suresh Boppani***, Vaibhav Dasari, Mainak Thakur

Projects

Anime Image Synthesis | github — May. 2023 to July 2023

- Executed the development and integration of VQGAN (Vector Quantized Generative Adversarial Network) within an extensive anime face dataset.
- Worked on advanced deep learning methodologies and generative art techniques to orchestrate the generation of visually captivating, top-tier anime images of exceptional quality.

AnimeVision | github — March. 2023 to April. 2023

- Implemented DCGAN on anime face dataset, integrating self-attention mechanism, resulting in a 65% reduction in generator loss and 79% decrease in discriminator loss compared to the model without attention.
- Improved discriminator performance with self-attention, elevating the probability of correctly classifying real images from 90.62% to 97.60%, while maintaining a low misclassification rate for generated images (D(G(z))) at 1.3%.

Technologies

Languages: Python, Java, C/C++, SQL

Tools/Frameworks: PyTorch, Matplotlib, Pandas, scikit-learn, Numpy, NLTK, Spacy,Seaborn, MATLAB, Git

Software: Visual Studio, Vim, Eclipse, Jupyter Notebook, Google Colab