Shugavaneshwar R

Chennai, India• shugavaneshwar13@gmail.com • +91 7397191107 • GitHub

EDUCATION

Rajalakshmi Engineering College   CHENNAI, India

Bachelor of Engineering, Computer Science and Design, **GPA: 7.8/10**   **2021-2025**

(Co-founder and Vice President Devs REC)

Relevant Coursework: Data Structures, Design and Analysis of Algorithms, Operating Systems, Software Engineering, Object Oriented Programming System, Fundamentals of Machine Learning, Fundamentals of Data Science, Cloud Computing, Data Visualization,

WORK EXPERIENCE

DevsRec Club, Rajalakshmi Engineering College   Chennai,India

Machine Learning Lead

- Key Skills: Natural Language Processing, Large Language Models, Deep Generative Models, Neural Text-to-Speech
- Leading research on building a Neural Machine Translation model for Tamil
- Building and deploying ML solutions and teaching machine learning skills to juniors
- Collaborated with other students to scale up projects and mentor new ones

PROJECTS

Neural Machine Translation for Tamil:

- The main objective is to build a model that has a higher BLEU score value than the current model that exists for the Tamil language
- Aim to achieve a high BLEU score with the minimum processing power required
- Processing and Binarization of the Bharath Parallel Corpus Collection(BPCC) for Tamil

Image Captioning:

- The model will recognize the context of an image and annotate it with relevant captions
- The model achieved a BLEU score of 0.5, indicating a high degree of relevance and accuracy.
- The model employed a Convolutional Neural Network (CNN) to extract visual features from product images, such as color, shape, and texture.

Satellite Image Segmentation:

- The primary goal of the model is to segment the image into classes like land, water, road, etc
- In this model, we combine the Unet with the Vit Transformer to achieve a more accurate result and capable of training on a low amount of data
- The model produces a loss function value of 0.68 which is great for the low amount of datasets

PUBLICATION

S Suresh Kumar, D Gayathri, R Shugavaneshwar, "Enhancing Deep Learning Models for Sentiment Analysis Integrating Texts and Emojis: A Comprehensive Survey," IEEE, 2024. IEEE Link

SKILLS AND INTERESTS

Technical Skills: Python (numpy, pandas, scikit-learn, mlflow), Deep Learning Frameworks (PyTorch, TensorFlow), C/C++ ,AWS (EC2),Docker,Git, CI/CD(GitHub Actions)