

Venkatasai Ojus Yenumulapalli

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EDUCATION

SSN College Of Engineering

Bachelor of Engineering in Computer Science

CGPA: 8.6

Kalvakkam, Tamil Nadu

Nov 2021 – Present

Indian Institute Of Technology Madras

Bachelor of Science in Data Science and Applications

CGPA: 9.2

Chennai, Tamil Nadu

September 2022 – Present

EXPERIENCE

Intern

Dell Technologies

June 2024 – August 2024

Sriperumbudur

- Worked closely with the engineering team to solve critical problem statements using web development and AI skills, contributing to improved manufacturing processes.
- Developed and implemented a predictive model for burn time, which optimized production scheduling and resource allocation.
- Analyzed fail logs to identify patterns and root causes, resulting in increased system reliability and reduced downtime using RAG.
- Designed a chatbot to provide information based on real-time data with a user-friendly interface.
- Implemented an object detection system using YOLO to accurately identify hardware parts, enhancing inventory management and reducing errors in part assembly.

PROJECTS

NewsImages: Connecting Text and Images | *Pytorch, Clip, Pandas, OpenCV*

- Developed and implemented a model for matching news article clippings with relevant images using the CLIP framework.
- Engineered a custom model based on the CLIP architecture, incorporating three key components: image encoder, text encoder, and a projection module for generating embeddings.
- Leveraged the image encoder and text encoder sections to effectively process and represent image and text inputs, optimizing the CLIP model for accurate matching.
- Successfully utilized the projection module to create embeddings for both image and text inputs, enhancing the overall performance and applicability of the developed model.

Emotion Detection in Hinglish Using Transformers | *Python, NLTK, TensorFlow, HuggingFace, Pandas*

- Developed a system for emotion recognition in Hinglish (Hindi-English code-mixed) conversations as part of SemEval 2024 Task 10.
- Employed machine learning models like Support Vector Machines (SVM), Multinomial Naive Bayes (MNB), and Random Forest (RF) for effective emotion classification.
- Utilized BERT-based models such as HingBERT, Hing mBERT, and HingRoBERTa to enhance accuracy in processing Hindi-Englishcode-mixed data..
- Implemented a Bidirectional LSTM model to capture long-range dependencies in text sequences, improving emotion classification performance.

TECHNICAL SKILLS

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

Web Technologies: HTML, CSS, JavaScript

Frameworks/Libraries: ReactJS, NodeJS, ExpressJS, Langchain, Pandas, NumPy, Matplotlib, Seaborn, Scikit-Learn, PyTorch, Spacy, YOLOv5

Developer Tools: Git, VS Code, Jupyter

Databases: MongoDB, RDBMS