

Katanguri Sai Harshith Reddy

 saiharshithkatanguri@gmail.com |  [Sai Harshith Katanguri](#) |  +91 9182510855

Education

Kakatiya Institute of Technology and Science, Warangal

Bachelor of Technology in Computer Science and Engineering | CGPA: 7.54/10

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Warangal, India

Projects

Demand-Based Dynamic Pricing Solution | Machine Learning, RandomForest, Data Science, Python |

- * **Developed** real-time data to predict optimal prices based on demand, resulting in improved revenue and customer satisfaction.
- * **Increased** profit percentage by 74%.
- * Achieved significant **profit growth** through the implementation of RandomForest Regressor.

Smart Blog Creation Engine | Large Language Models |

- * **Implemented** a blog generation system featuring 3 key components, utilizing open-source LLM models such as **LLAMA3**, seamlessly integrated with **Langchain** for advanced language processing and **streamlit** for an intuitive, user-friendly interface.
- * **Designed** to automatically generate both a title and comprehensive blog content based on the provided topic, enhancing content creation efficiency

Trend Sense : AI-Based Fashion Style Recommendation | Machine Learning, Python |

- * **Developed** a deep learning-based fashion recommendation system to recommend similar clothing items based on images, using the **Inception V3** model for feature extraction and ImageNet weights.
- * **Enchanced** user experience with personalized recommendations based on cosine similarity between clothing images
- * Used data **augmentation** techniques to expand the variety of the training dataset, helping the model better understand different clothing styles and recommend a more diverse range of items to users

Lingua Bridge: English - Hindi AI Translator | Finetuning, Python, LLM's—

- * **Engineered and fine-tuned a transformer-based architecture** for high-quality English to Hindi translation, achieving **97% translation accuracy** on the evaluation set
- * Leveraged **transfer learning** from pre-trained models like mBERT to **optimize** the model for the Hindi language, minimizing training time while maintaining high performance.

2.0.1 Don't Be The Last – Real-time Multiplayer Web Game

- React, Node.js, Socket.io • Built a fast-paced multiplayer browser game with real-time Web Socket communication. • Players join rooms, answer timed questions, and get eliminated based on a bomb-pass mechanic. • Implemented server-authoritative design to ensure synced timers, elimination logic, and anti-cheat validation. • Features include live scoreboard, random question generator, room support, and deployment-ready architecture.

Technical Skills

Languages: Python, Java(OOPS), SQL(Intermediate)

Technologies: Machine Learning, Data Science, Data Handling ,NLP,React js,Node js.

Libraries: Langchain ,Scikit-learn ,Numpy ,Matplotlib ,Pandas ,Seaborn ,Streamlit.

Extracurricular Activities

- * Volunteered in events like blood donation camps and Wall of Kindness, impacting over 500+ needy people.
- * Organized college hackathons with 300+ participants, providing hands-on coding experience and problem-solving skills
- * **Hobbies:** Cricket, Music, Movies, Community Service, Fitness.