

RITISH REDDY

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EDUCATION

Bachelor of Technology Computer Science (AI & ML)
VNR Vignana Jyothi Institute of Engineering & Technology

GPA: 8.88/10
Nov 2020 - Present

TECHNICAL SKILLS

Languages/Tools: C++, Python, Java, SQL, Javascript/Typescript, HTML, CSS, Git, GitHub.

Libraries/Frameworks: ReactJS, Express, NodeJS, TensorFlow, Scikit-Learn, Flask.

Database/ Cloud: MySQL, MongoDB, Firebase.

EXPERIENCE

Data Science Intern

Nov 2022 - Jan 2023

Vistan NextGen

Remote

- Collaborated closely with the data science team to conceptualize and successfully deliver an advanced **automated number plate detection system** for a valued client.
- Executed **web scraping and applied image processing techniques** on number plates, leading to highly optimized data acquisition and analysis processes.
- Modeled object detection algorithms **YOLOv5** to develop real-time detection, enhancing system efficiency and accuracy while meeting project deadlines consistently.

PROJECTS

Legal Information Retrieval | [GitHub](#)

May 2023

SBERT, Streamlit, FastAPI, FAISS

- Developed a web application to retrieve legal statutes with a **Mean Reciprocal Rank (MRR) of 92.43 and an average latency of 0.5 sec** by fine-tuning the **msmarco-distilbert-base-v2** model.
- Conducted a **comparative analysis** of SBERT models using factors like MRR, latency, and model size to fine-tune models on Indian legal statutes.
- Selected as the **best project of 2022-23** in the Department of Computer Science (AI & ML) for its **outstanding societal impact**.

Movie Recommender System | [GitHub](#)

Dec 2022

Streamlit, TF-IDF

- Deployed a web application to recommend IMDB movies with an **accuracy of 97%** by implementing content-based recommendation algorithm.
- 20+ raw features are collected from the IMDB dataset with 5000 records, cleaned by converting json to string, and **created a custom feature with attributes keywords, genres, cast and crew**.
- Built a recommendation algorithm to **recommend the top 5 movies based on cosine similarity**.

One Health | [GitHub](#)

Nov 2022

Typescript, ReactJs, Stripe, Zoom, Leaflet, Firebase

- Developed user interfaces for patients to consult doctors, book beds, and order medicines using **ReactJS, React Bootstrap, and Firebase**.
- Created business services for **Zoom video calls, authentication**, and user roles using typescript.
- Integrated **Zoom API** for video calls, **Stripe API** for payments, **Email JS** for email service, **Distance Matrix**, and **Leaflet JS** for route mapping.

ACHIEVEMENTS

- Certification in **Google Data Analytics**.
- Kaggle **Notebook Expert**.
- Conducted a **hands-on Machine Learning** session for 150 students.
- Contributor in **Open Source HacktoberFest 2022**.
- **Winner** Of Convergence Hackathon 2021 among 60 teams.