

Aditya

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Experience

On-campus Competitive Event

Feb 2025

Infineon Technologies

- Developed a robust system for optimizing LLM input data for efficiency & accuracy, especially for tabular data.
- Engineered a highly optimized retrieval pipeline that acted as an intelligent **proxy** between **raw user inputs** and the **LLM**.
- Mapped **user queries** and **column names** into a vector space using **embeddings** and calculated **cosine similarity** between them to determine the most relevant **target columns**.
- Created **relevancy contexts** by concatenating **key columns per row** and Generated embeddings for these row contexts for refining them through **similarity** search with **query embeddings**.
- Finally, Retrieved the most **contextually relevant rows and columns** with high precision—delivering faster, more accurate results.

Projects

Smart Keyboard /NLP, LSTM, Python, Tkinter

Nov 2024

- Created a smart Android keyboard replica using Tkinter (Python GUI library).
- Features word prediction using an LSTM (Long Short-Term Memory)-based model.
- Suggests next words based on input phrases or sentences, improving typing efficiency.
- GitHub Repository Link: <https://github.com/gitYourbits/smart-keyboard>

Deepfake Image Detector /Deep Learning, CNN, XceptionNet Fine-Tuning, Python, Streamlit

Oct 2024

- Created a deepfake-image detection model using transfer learning with XceptionNet (fine-tuning).
- Model Architecture: Used a pre-trained CNN model, tailored for image classification, for fine-tuning and achieved ~93% validation accuracy on the utilized dataset.
- Prediction Mechanism: Classifies images as "Real" or "Fake" with a 0.5 threshold.
- GitHub Repository Link: <https://github.com/gitYourbits/Deepfake-Image-Detector>

Book Recommender System /Python, Cosine-Similarity, Scikit-Learn, Streamlit

Feb 2024

- Built a recommendation system using the "Amazon Books Reviews" dataset picked from Kaggle.
- Employed vectorization and cosine similarity for personalized suggestions.
- Deployed via Streamlit Cloud for accessible and interactive use.
- GitHub Repository Link: <https://bookfinder.streamlit.app/>

Certificates

Practical Cyber Security for Cyber Security Practitioners

Jul 2024 – Oct 2024

NPTEL — Certificate Link

Game Development using Unity

Jun 2024 – Jul 2024

CipherSchools — Certificate Link

Technical Skills

Languages: Python, C++, JavaScript

Technologies/Frameworks: Django, React JS, LangChain, Unity, Docker, Bootstrap, Tailwind CSS, Streamlit, Git, Linux

Skills: Deep Learning, Natural Language Processing, CNN, Generative AI, Web Development, Web Hosting

Education

Lovely Professional University Punjab

2022 – 2026

Computer Science and Engineering — CGPA: 7.6

Jalandhar, Punjab

RPS Senior Secondary School

2020 – 2021

12th with Science — Percentage: 96.20%

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RPS Senior Secondary School

2018 – 2019

10th with Science — Percentage: 97%

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