Contact

📞 +91 9119530237

✉ tanishqwork1013@gmail.com

📍 Katol Road, Nagpur Maharashtra

○ https://github.com/Tanishqbot/

in www.linkedin.com/in/tanishq-tembhurne/

Academics

Woxsen University | Hyderabad
B.Tech CSE | *2021 - 2025*

DR B.R Ambedkar College | Nagpur
Intermediate | *2018 - 2020*

Delhi Public School | Nagpur
Matriculation | 2005 - 2018

Technical Skills

Python, Git, Machine Learning, Pytorch, Tensorflow, Advanced EDA, Power BI, Fine Tuning, NLP, Azure, Azure Databricks, AWS, EC2, SageMaker, Image Processing, RAG, LangChain, Neo4J, Vector Databases, LangGraph, CrewAI, Camel-AI.

Achievements

- Merit Student in Class 10.
- Leading the football team to victory two consecutive times
- Math Olympiad Winner (2nd Runner up)
- Second Runner Up in Woxsen University's GIS competition
- Lead the football team in the district level Football Championship

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Tanishq Tembhurne
B.Tech - Computer Science Engineering
Objective

Skilled in Pytorch, TensorFlow, GANs, vector databases, computer vision, Generative AI (Gen-AI), Retrieval-Augmented Generation (RAG), and image segmentation, with expertise in advanced EDA and Power BI. Experienced in tackling complex challenges, guiding teams, and fostering collaboration. Committed to driving innovation in the field GEN-AI.

Internship:

Conquest Technological Solutions (*Feb 2024 - June2024*)
Data Science Intern

- Developed KPI dashboards using Power BI to deliver actionable business insights.
- Performed advanced Exploratory Data Analysis (EDA) to uncover trends and anomalies.
- Applied data visualization techniques to simplify and present complex datasets.
- Conducted comprehensive data analysis to support business intelligence initiatives.
- Collaborated with stakeholders to ensure accurate reporting and data alignment.

Social Internship, Hyderabad *(May 2023 -July 2023)*

Chatbot Developer

- Developed a multilingual chatbot in English, Hindi, and Telugu to assist farmers with crop and agricultural guidance.
- Integrated ChatGPT for real-time information retrieval and enhanced user accessibility.
- Leveraged Natural Language Processing (NLP) to deliver accurate responses in native languages.
- Focused on improving agricultural practices through AI-driven solutions.

Projects

Text-to-Image Conversion Model :

- Developed a text-to-image generation model using customized U-NET and CLIP for improved image-text alignment.
- Leveraged the wbensvage/clothes_desc dataset from huggingface to enhance model accuracy and versatility.
- Applied deep learning techniques to advance computer vision and NLP integration.
- Demonstrated a novel approach with potential for academic publication.

Finetuning BLIP and Implementing RAG :

- Fine-tuned the BLIP model for image-to-text conversion to generate accurate captions.
- Utilized the ROCO radiology dataset, focusing specifically on chest images by filtering based on captions.
- Enhanced image understanding by integrating Retrieval-Augmented Generation (RAG) with BLIP-generated captions.
- Applied RAG to provide additional contextual and detailed information for the given images.
- Advanced the field of medical imaging analysis by combining deep learning and retrieval-based techniques.

Vectorization and Validation:

- Developed a file-based Q&A application to answer queries by retrieving relevant information from uploaded files.
- Implemented ChromaDB and Mosaic AI for vector database integration and efficient search functionality.
- Validated retrieved results using cosine similarity and Euclidean distance for query accuracy.
- Deployed the model using Databricks for scalability and performance optimization.
- Built the frontend using Flask, HTML, and CSS, ensuring seamless integration with the backend.

GANs for emotion detection :

- Implemented Generative Adversarial Networks (GANs) to generate images depicting various emotional expressions.
- Designed and trained a GAN model to synthesize realistic facial images for emotion detection.
- Enhanced emotion detection accuracy by fine-tuning the model to capture subtle emotional cues.
- Utilized advanced deep learning techniques to develop a robust and scalable emotion detection system.
- Focused on improving model performance through data augmentation and iterative refinement.