DIVYAH MANDAVIA

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EDUCATION

B.E Artificial Intelligence and Data Science , VCET, Mumbai - 8.8 CGPA 2020 - 2024
Built a strong foundation in AI and Data Science, specializing in machine learning, computer vision, NLP, and data analytics. Developed practical skills in algorithm design and predictive modeling.

SKILLS

Technical Skills	Python, C/C++, JavaScript, SQL, APIs, Data Visualization,Pandas, MySQL
Technologies	Machine Learning, NumPy, Django, TensorFlow, PyTorch, SciPy, Bootstrap, Node.js, React.js, Express.js, Power BI, Git, GitHub, AWS, GCP, Vercel, Streamlit
Relevant Coursework	Data Structures and Algorithms (C++, Java), Probability & Statistics in CS (Python), Linear Algebra, Computational Applications (Python), Networks

EXPERIENCE

Gen AI Intern Mar 2024 - Jun 2024
EXL Services *Mumbai, IN*

- Implemented an advanced multimodal chatbot using techniques such as natural language processing and image recognition via Retrieval Augmented Generation (RAG), achieving a 22% improvement in information retrieval accuracy, as confirmed by user feedback metrics.
- Enhanced query resolution efficiency as measured by 9 secs average response time, by optimizing the chat-bot's context understanding and multimedia document processing capabilities.

ML Intern July 2023 - Apr 2024
Fafadia Tech *Mumbai, IN*

- Developed and launched a visual search engine using a CNN-based ML pipeline, resulting in a 12% increase in user engagement on the company's news blog website.
- Improved content discovery measured by 1.7k increased click-through rates on recommended articles, by fine-tuning CNN models on extensive datasets to achieve higher accuracy in image-to-article matching.

PROJECTS

Semantic Image Retrieval Engine (SIRE) | *Python, CNNs, Streamlit, OpenCV, TensorFlow* Project

- Collaborated with 2 team members to develop a responsive image retrieval system, designing and implementing a Convolutional Neural Network (CNN) model using TensorFlow, alongside a user-friendly Streamlit interface.
- Engineered a reverse image search algorithm using OpenCV and custom feature extraction techniques, achieving 86% accuracy in identifying visually similar images within a 25k+ image database.

Multimodal AI Chatbot | *Python, LLMs, Hugging Face Transformers, RAG, Computer Vision*

- Engineered an advanced chatbot capable of processing and responding to text, image, and audio inputs using Large Language Models (LLMs) and the Retrieval-Augmented Generation (RAG) framework.
- Integrated computer vision algorithms to enable image understanding and contextual responses, enhancing the chatbot's multimodal capabilities.
- Optimized model configurations and fine-tuning methodologies through iterative testing, resulting in a 20% improvement in response accuracy and relevance across diverse input types.

CERTIFICATION AND PUBLICATION

- Supervised Machine Learning: Regression and Classification on Coursera Coursera.org
- S. M. Yadav, K. S. Joshi, D. T. Mandavia and P. M. Puri, "Retroflex: Uncovering Visual Equivalences through Reverse Image Recon," 2024 11th International Conference on Computing for Sustainable Global Development (INDIACom), New Delhi, India, 2024 IEEE.explore

EXTRA-CURRICULAR AND CO-CURRICULAR ACTIVITIES

- Experienced Chairperson of NSDC VCET, demonstrating exceptional organizing skills in event coordination and strategic planning. Successfully organized 5 major technical events, including Code-o-Fiesta (coding hackathon), VNPS (project showcase), and TechBlitz (inter-college AI competition).
- Secured first prize in the VCET Technical Paper Presentation Event "Oscillations" (2023). Achieved second place in VPNS (2024) for a unique and innovative project. Selected for the Excellence Student Award..