**DIVYAH MANDAVIA**
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## EDUCATION

**B.E Artificial Intelligence and Data Science** May 2024
Vidyavardhini's College of Engineering and Technology CGPA: 8.9/10

## SKILLS

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| **Technical Skills** | Python, C/C++,Javascript,Java,SQL |
| **Technologies** | Machine Learning , Numpy, Django, , TensorFlow, PyTorch, SciPy, Bootstrap, Node.js, React.js Express.js, APIs, Data Visualization, Web Development, Power BI , Pandas, MySQL, Git, GitHub |
| **Soft Skills** | Adaptability, Curiosity, Critical Observation, Problem-Solving, Networking, Team Building |

## EXPERIENCE

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

- Developed a conversational chatbot using Retrieval Augmented Generation (RAG) technique to interact with users through multimedia inputs, achieving a 35% increase in user interaction and engagement.
- Conducted extensive research on user interaction patterns to improve the chatbot's response accuracy, leading to a 20% reduction in user query resolution time.

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

- Designed and developed a reverse image search engine using convolutional neural networks (CNNs) and Streamlit, enabling users to find visually similar images within a vast database. Trained CNN models on large datasets, achieving a 86% accuracy rate in image recognition tasks.
- Implemented user-friendly search interfaces and optimized backend algorithms, leading to a 20% increase in user engagement and satisfaction.

## PROJECTS

**Semantic Image Retrieval Engine (SIRE)** | *Python, Convolutional Neural Networks, Streamlit, OpenCV* - Project

- Led the development of a cutting-edge Semantic Image Retrieval Engine (SIRE) employing Convolutional Neural Networks (CNNs) and Flask framework.
- Implemented a reverse image search functionality enabling users to find visually similar images within a vast database. Spearheaded the training of CNN models on a large dataset, achieving a 86% accuracy rate in image recognition tasks.

**RAG Based LLM Chatbot** | *Python, Large Language Model (LLM), Hugging Face Transformers, Retrieval-Augmented Generation (RAG)*

- Launched and oversaw an independent project aimed at deploying Large Language Models (LLMs) with the Retrieval-Augmented Generation (RAG) framework. Formulated and executed strategic approaches to maximize RAG's potential in augmenting both natural language understanding and generation tasks.
- Conducted autonomous research, continually refining model configurations, and fine-tuning methodologies for optimal performance, resulting in a 14% improvement in both natural language understanding and generation tasks.

## COURSES AND PUBLICATIONS

**Courses 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

- Directed various technical events incorporating valuable industry-required skills as Chairperson at NSDC VCET.
- Achieved first place in Technical Paper Presentation at VCET Oscillation.