

Megh Dave

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Education

Dwarkadas J. Sanghvi College of Engineering 08/2023 – present
Bachelor of Technology in CSE (Data Science), Honors in Computational Finance. Mumbai, Maharashtra
CGPA:8.93

Experience

ML Research Intern 06/2025 – Present
IIT Bombay

- Identified modeling limitations in existing transpiration studies and proposed an inverse PINN framework using temporal data to estimate latent plant parameters.
- Integrating LSTM inspired time encoding and TimeGAN based noise injection to enhance generalization and robustness under sparse or noisy observations.

Projects

OOPS!IDidntStudy: Last-minute study platform 

- PanicNotes: AI-generated, consolidated notes combining content from multiple file types (PDF, Word, PPTX, DOCX) into a single, streamlined document.
- CramBot & Quizzard: CramBot answers queries using user notes, while Quizzard creates tailored quizzes based on the user's content.
- Tech stack: Python, DL, NLP, APIs, React, FastAPI, Vercel, Streamlit.

JigyasaAI: Multimodal Retrieval-Based Chatbot 

- Users can upload PDFs and ask questions, with the chatbot retrieving relevant images along with text-based answers—unlike others that mainly generate images, it integrates both for more comprehensive responses.
- Tech Stack: Python, CLIP Models, Cloudinary, ChromaDB, APIs, Streamlit.

Deep Learning Based Potato Leaf Disease Classifier 

- Developed a deep learning model (99%+ accuracy) for real-time potato leaf disease diagnosis from user-uploaded images.
- Tech Stack: Python, Streamlit, FastAPI.

Achievements

- 2nd Runner up in Co-Code Hackathon (Hybrid Mode) at DJ Sanghvi College.
- 2nd Runner-Up at DJS Sanshodhan 2025.

Skills

Languages — HTML, CSS, Python

Frameworks — Flask, FastAPI, Bootstrap, Tailwind CSS

Database/Cloud and Version Control — MySQL, ChromaDB, Cloudinary ,Git, GitHub, Docker, Streamlit

AI & Machine Learning — Generative AI, Supervised Learning, Feature Engineering, TensorFlow, NLP, CNN, PINNs, LSTMs, TimeGANs, RNN

Certificates

AWS Academy Graduate - AWS Academy Machine Learning Foundations

AWS Academy Graduate - AWS Academy ML with NLP Foundations

Co- Curriculars

DJS S4DS 08/2024 – present
Marketing Associate
Identify and engage potential sponsors to secure event funding and support.

DJS Nova 09/2024 – present
Publicity Associate
Manage event publicity through social media and offline outreach to maximize attendance and engagement.