

# Megh Dave

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## Education

### Dwarkanadas J. Sanghvi College of Engineering

Bachelor of Technology in CSE (Data Science), Honors in Computational Finance.

CGPA:8.93

08/2023 – present

Mumbai, Maharashtra

## 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!!DidntStudy: 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.