

Devesh Pramod Pawar

Indian Institute of Technology Madras

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EDUCATION

Program	Institution	%/CGPA	Year of Completion
B.Tech in Mechanical Engineering & Interdisciplinary M.Tech in Data Science	Indian Institute of Technology Madras, Chennai 600036, Tamil Nadu, India	9.15/10	2027*
Class XII (Maharashtra State Board)	R.C. Patel Art, Commerce & Science College, Shirpur 425405, Maharashtra, India	98.17%	2021
Class X (Maharashtra State Board)	Janata High School, Sindkheda 425406, Maharashtra, India	96.80%	2019

SCHOLASTIC ACHIEVEMENTS

- Secured **Silver Medal** at Inter-IIT Tech Meet'23 in the Albatross Energetics problem statement, competing among top IIT's.
- Achieved **AIR 4403** (Top 3%) in JEE Advanced 2022 and **AIR 5154** (Top 0.5%) in JEE Mains 2022, among 1M+ candidates.
- Ranked 168** in MHT-CET 2022 out of 2.5 lakh+ candidates.
- Secured **District Rank 1** in Class X Board Examinations, achieving distinction as the highest performer in the entire district.

PROFESSIONAL EXPERIENCE

1. **Wipro Infrastructure Engineering** ([Proof](#))
(Project: Packaging Cost Optimization for Spares. (May'25-July'25)
- Applied clustering & unsupervised learning to identify optimization opportunities, reducing packaging costs by **20%+**.
 - Built & deployed a **Python-Flask web app** with full ML-Pipeline & cost calculator, cutting **RFQ**¹ lead time by **~50%**.
 - Delivered a scalable solution adopted for multiple customer plants, improving **decision-making efficiency**.
2. **FedEx-IITM Centre** ([Proof](#))
(Project: AI-based driver monitoring - Data Acquisition & Performance Studies.) (May'24-July'24)
- Designed pipeline for **real-time sensor data collection & integration** using 10+ haptic devices.
 - Applied ML classification models for anomaly detection, improving **training reliability & worker safety monitoring**.

PROJECTS

1. **Market Volatility Prediction using LSTM and TCN** ([link](#)) (Personal Project)
- Developed forecasting models (**GARCH, LSTM, Transformer**) for financial time-series, achieving validation **MAE 0.42**.
 - Engineered features using **VMD**² and built a hybrid **VMD-LSTM-TCN model**, reducing MAE to **0.25 (40% improvement)**.
 - Visualized model outputs to support **risk management & trading decision-making**.
2. **Custom Large Language Model** ([link](#)) (Personal Project)
- Built and evaluated bigram and GPT-based model, demonstrating **deep learning architecture implementation**.
 - Built & evaluated a GPT-style model from scratch on a custom corpus, gaining **hands-on experience in transformers & NLP pipelines**, achieving **loss 5.21**.
3. **Reinforcement Learning Based Snake Game Playing Model** ([link](#)) (Personal Project)
- Built a reinforcement learning agent with **Q-learning**, achieving adaptive gameplay in a custom Pygame environment.
 - Focused on designing, training, and optimizing **stochastic decision-making models** with dynamic state transitions.

POSITIONS OF RESPONSIBILITY

1. **Head & Project Member (iBot³ Club, Center for Innovation, IIT Madras)** (May'23-May'25)
- Led a **60+ member** robotics club, managing 5 projects and a competition team & initiated filing of **2 Intellectual Property** applications while mentoring students in robotics & AI.
 - Organized the **"AI-Robothon"** hackathon in collaboration with **Orangewood Labs**, & collaborated with O.P. Jindal Global University to develop a **GPT-powered semi-humanoid guide robot**.
 - Directed navigation module in Project **CoBALT**⁴, implementing A* & MPC algorithm and building ROS/Gazebo simulations to optimize warehouse logistics.
2. **Manager (Sponsorship & Industrial Relations, Center for Innovation, IIT Madras)** (Oct'23-May'24)
- Secured and managed sponsorships for CFI⁵ Research Conclave'23 (**1k+ footfall**) and Open House'23 (**5k+ footfall**).
 - Built a sponsor database, reached out to 15+ organizations, and negotiated in-kind deals to support CFI⁵ projects.

RELEVANT COURSE WORK

- Foundations of Machine Learning*
 - Introduction to Scientific Computing
 - Principles of Economics
- Mathematical Foundations for Data Science*
 - Data Structures and Algorithms (C++ & Python)
 - Deep Learning

SKILLS

- Linux (Bash), Python, C++, Pandas, Numpy, PyTorch, TensorFlow, Git, SQL, MATLAB.
- MS Excel, MS PowerPoint, MS Word, Latex.
- Leadership, Team Work, Problem-Solving, Critical Thinking.

Abbreviations: ***ongoing** | **RFQ**¹: Request for Quote | **VMD**²: Variational Mode Decomposition | **iBot**³: Robotics Club at IIT Madras | **CoBALT**⁴: Collaborative Bots for Automated Logistics & Transport | **CFI**⁵: Center for Innovation IIT Madras