

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	9.15/10	2027*
Class XII (Maharashtra State Board)	R.C. Patel Art, Commerce & Science College, Shirpur	98.17%	2021
Class X (Maharashtra State Board)	Janata High School, Sindkheda, Maharashtra	96.80%	2019

SCHOLASTIC ACHIEVEMENTS

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

PROFESSIONAL EXPERIENCE

- Wipro Infrastructure Engineering** (Project: Packaging Cost Optimization for Spares.) ([Proof](#)) (May’25-July’25)
 - Identified cost optimization opportunities and applied **5+ unsupervised learning algorithms**, resulting in **20%+ cost savings**.
 - Built and deployed a packaging cost calculator for RFQ¹ processes, **reducing quotation lead time by nearly 50%** across plants.
 - Designed and implemented a Python–Flask web application to scale the packaging optimization solution across multiple customers.
- FedEx-IITM Centre** (AI-based driver monitoring - Data Acquisition & Performance Studies.) ([Proof](#)) (May’24-July’24)
 - Assessed **10+ haptic devices & sensors**, built the pipeline for seamless data collection, integration, and real-time processing.
 - Implemented advanced classification algorithms for anomaly detection, significantly enhancing training reliability and effectiveness.

PROJECTS

- Market Volatility Prediction using LSTM and TCN** ([link](#)) (Personal Project)
 - Developed quantitative forecasting models (GARCH, LSTM, Transformer) to predict **financial time-series volatility** in IT sector data, achieving strong performance with **MAE of 0.42** and **MSE of 0.27** on validation datasets.
 - Built a novel **VMD²-LSTMA-TCNA** hybrid deep learning model entirely from scratch, integrating temporal and frequency features.
 - Enhanced prediction accuracy with the hybrid model, achieving state-of-the-art validation scores of **MAE 0.25** and **MSE 0.12**.
- Custom Large Language Model** ([link](#)) (Personal Project)
 - Designed and trained a **Bigram Language Model** on a limited corpus, implementing foundational NLP techniques with a **loss 3.24**.
 - Built and evaluated a **GPT-based Language Model** from scratch, gaining hands-on experience in transformers with a **loss 5.21**.
- Reinforcement Learning Based Snake Game Playing Model** ([link](#)) (Personal Project)
 - Built a Reinforcement Learning Snake Game AI in a custom Pygame environment, implementing training and evaluation.
 - Implemented Q-Learning algorithm, emphasizing work on designing, optimizing & evaluating **stochastic decision-making models**.

POSITIONS OF RESPONSIBILITY

- 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 while mentoring students in robotics & AI.
 - Organized the “**AI-Robothon**” hackathon in collaboration with **Orangewood Labs**, attracting **10+ IITM teams**, & collaborated with O.P. Jindal Global University to develop a **GPT-powered semi-humanoid museum guide robot**.
 - Initiated filing of **2 Intellectual Property** applications from club projects, driving innovation & research impact.
 - Led navigation module in Project **CoBALT⁴**, building Gazebo simulations with kinematic modeling and ROS integration.
 - Implemented A* and MPC algorithms for autonomous navigation and developed methods to streamline warehouse logistics efficiently
- 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

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| <ul style="list-style-type: none">Principles of EconomicsDeep LearningData Structures and Algorithms (C++ & Python) | <ul style="list-style-type: none">Foundations of Machine Learning*Mathematical Foundations for Data Science*Introduction to Scientific Computing |
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SKILLS

- Linux, Python, C++, Pandas, Numpy, PyTorch, TensorFlow, Git, SQL, MATLAB.
- MS Excel, MS PowerPoint, MS Word, Latex.

Abbreviations: ***ongoing** | **RFQ¹**: Request for Quote | **VMD²**: Variational Mode Decomposition | **iBot³**: Robotics Club at IIT Madras | **CoBALT⁴**: Collaborative Bots for Automated Logistics & Transport | **CFI⁵**: Center for Innovation IIT Madras