

# Dhruv Maheshwari

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## EDUCATION

### Manipal Institute of Technology

July 2023 – Present

*B.Tech in Computer and Communication Engineering — CGPA: 9.27/10.0*

### Maheshwari Public School

2010 – 2022

*Higher Secondary (12th CBSE) - 91%*

## ACHIEVEMENTS

- Finalist in **JPMC Code for Good 2025 Hackathon** – Selected among top 50 teams from over 18,000+ students nationwide.
- National Semi-Finalist in **Flipkart GRiD 7.0** – focused on problem-solving, data structures and algorithms.

## EXPERIENCE

### Management Committee

Nov 2023 – May 2025

*ESOM – Economics and Finance Society of Manipal*

- Coordinated **5+** finance workshops reaching **150+** students, overseeing event logistics and speaker engagement to boost campus financial literacy.
- Synthesized research on macroeconomic trends into actionable insights for member-led discussions and educational resources.

### Associate

Nov 2023 – May 2024

*E-Cell – Entrepreneurship Cell*

- Supported planning and execution of entrepreneurship summit showcasing **12+** student-led ventures, streamlining schedules and participant coordination.
- Facilitated ideation workshops and networking sessions to strengthen the startup ecosystem on campus.

## PROJECTS

### URL Monitor | Django, PostgreSQL, Tailwind

June 2025

- Developed a distributed URL monitoring system to track **uptime, response codes, and latency**.
- Implemented a scheduling layer for periodic health checks with robust **retry logic, exception handling, and logging**.
- Integrated **SMTP-based email alerts** to notify users on downtime and recovery.

### NeuroQuant - Trading Backtester | Python, FastAPI, PostgreSQL, yfinance, NumPy/Pandas

November 2025

- Built an institutional-grade **backtesting engine** simulating market data, signal generation, order routing, fills, and portfolio updates through a FIFO event queue.
- Implemented realistic execution modeling including **slippage (square-root market impact), commissions, bid-ask spreads**, eliminating look-ahead bias by design.
- Exposed the engine via a **FastAPI REST backend**, using Pydantic for strict validation and tracking **positions, cash, realized/unrealized PnL, and equity curve**.

### Stock & Portfolio Tracker | Flask, PostgreSQL, yfinance, HTML/CSS

April 2025

- Built a web app to help users **buy/sell stocks, view portfolio, and track real-time prices**.
- Modeled financial data with **PostgreSQL** schemas and used **yfinance** to fetch stock prices from **Indian Markets**.
- Implemented dynamic portfolio valuation logic with automated profit/loss computation for each holding.

## TECHNICAL SKILLS

**Languages:** Python, C, C++, Java, SQL, Bash, HTML, JavaScript

**Frameworks/Tools:** Django, Flask, FastAPI, Celery, Pandas, Numpy, Matplotlib, yfinance, Git, GitHub

**Concepts:** Data Structures, Algorithms, Object-Oriented Programming, Relational Databases, Computer Systems

*Last updated: November 2025*