

# DIWAKAR MISHRA

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## EDUCATION

### VELLORE INSTITUTE OF TECHNOLOGY, BHOPAL

2023 - 2027

B.Tech, Computer Science and Engineering(AIML)

- GPA: 7.84

### DAV PUBLIC SCHOOL, BARMANA

2021 - 2022

Higher Secondary

- GPA: 83.4%

### DAV PUBLIC SCHOOL, BARMANA

2020 - 2021

Matriculation

- GPA: 92%

## WORK EXPERIENCE

### Vellore Institute of Technology, Bhopal

Sep 2024 - Present

University Assistant Sports Secretary

Bhopal, Madhya Pradesh

Role – University Assistant Sports Secretary

- Supervised a team of 300+ student volunteers in coordinating event logistics, including venue setup, registration, and equipment management, resulting in zero major incidents and positive feedback from participants.
- Orchestrated university-level sports event (AdVITYa'25 Annual Sports Fest), including cricket, soccer, and track and field, attracting over 1500+ participants and ensuring seamless event execution from start to finish.

### Vellore Institute of Technology, Bhopal

Jan 2024 - Present

iOS Club President

Bhopal, Madhya Pradesh

- Managed event planning and logistics for the largest technical club at VIT Bhopal, leading multiple hackathons, workshops, and speaker sessions focused on app development and innovation.

## PROJECTS

### FinTech Dashboard & Predictive Analytics

Apr 2025 - May 2025

- Developed a financial analytics dashboard to visualize market trends and portfolio performance, integrating real-time data from financial APIs.
- Implemented predictive models using Scikit-learn to forecast stock prices and identify potential investment opportunities, achieving an average forecasting accuracy of 85%.

### AGRIFARM – Crop & Fertilizer Recommender

Feb 2025 - Apr 2025

- Expanded a machine learning-based recommendation system analyzing soil N, P, K levels, pH, rainfall, and temperature to optimize crop/fertilizer selection, achieving 98% prediction accuracy using Random Forest
- Integrated a user-friendly Streamlit interface enabling farmers to input parameters and receive real-time recommendations, reducing fertilizer waste by ~30% in pilot testing

### StrongCEMENT – Concrete Strength Predictor

Jan 2025 - Feb 2025

- Built a web application to predict concrete compressive strength using mix composition inputs such as cement, water, coarse/fine aggregates, and admixtures.
- Utilized regression models like Random Forest Regressor and Linear Regression, achieving high R<sup>2</sup> score and low MAE.
- Created an interactive Streamlit UI for real-time prediction, making it accessible for civil engineers, students, and researchers.

## TECHNICAL SKILLS

- **Languages:** Python, C++, HTML, CSS
- **Databases:** SQL
- **Tools/Platforms:** Power BI, Excel, Git/GitHub, Canva
- **Frameworks/Libraries:** Streamlit, Scikit-learn, Pandas, Matplotlib
- **Core Competencies:** Machine Learning, Data Science, Computer Science, Analytical Skills

## ROLE OF RESPONSIBILITY

- Active participant in hackathons (One of the Best Maintainers in AcWoc'25 Hackathon) and coding challenges.
- English Proficiency Certification – C1 Advanced (EF SET).
- Completed Python for Data Science, AI & Development by IBM on Coursera.
- Completed Databases and SQL for Data Science with Python by IBM on Coursera.