

# Anushka Mandekar

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## Education

### Vellore Institute Of Technology

*Bachelor of Technology in Computer Science* CGPA: 8.42

Bhopal, M.P

*Expected Graduation: 2026*

### Nashik Presidency School & Jr. College

Nashik, MH

*Senior Secondary Education* CGPA: 10

*Passed out: 2021*

### Wisdom High International School

Nashik, MH

*Secondary School* CGPA: 9.76

*Passed out: 2019*

## Technical Skills

**Programming and Tools:** Python (Pandas, NumPy, scikit-learn, Seaborn), SQL, DBMS, Microsoft Excel (Power Query, Power Pivot), Power BI, Git, Google Workspace.

**Data Science:** Machine Learning Fundamentals, Statistics, A/B Testing, EDA, Data Cleaning, Data Visualization.

## Projects

### Urban Growth Forecasting and Zoning Optimization System (April 2025) — Python, Google Earth Engine

- Solved challenges of unplanned urbanization and resource misallocation by building forecasting models in Python to estimate future population and infrastructure needs.
- Designed 4 predictive models (population, land use, road networks, water demand) using 556 satellite datasets (667GB+), 3,000+ samples, across a 100 km<sup>2</sup> region.
- Achieved 20% higher prediction accuracy, equipping local planners with sustainable insights that improved long-term resource allocation and quality of life.

### Call Centre Performance Dashboard (January 2025) — Excel, Power Pivot

- Built an interactive dashboard by integrating datasets with Excel's Data Model, designing KPIs with Power Pivot, and automating calculations through pivot tables, slicers, and XLOOKUP.
- Automated call trend, agent performance, and customer analytics, transforming raw data into a real-time performance monitoring tool.
- Improved reporting efficiency and empowered employees to access rich, data-driven insights quickly.

### Travel Itinerary generating website (March 2024) — Python (Django), SQL, HTML, CSS, JavaScript, Google, Maps API

- Identified a critical gap in travel planning caused by scattered data and generic recommendations.
- Led the development of a full-stack platform, cleaning raw datasets in Excel and designing relational models in SQL to process 1M+ records and seamlessly integrate 1,050 destinations and 1,500 restaurants through rule-based filters, behavioral logic, and geolocation mapping.
- Reduced user planning time by 70%, enhancing efficiency, cost-effectiveness, and user satisfaction.

## Co-curricular Activities

- Engineered a financial planning prototype at American Express Hackathon, leveraging real-time spend analysis to simulate a 15% rise in user savings optimizing spending patterns.
- AI Researcher and Developer – Omdena Nepal Local Chapter (2023): Developed a web-scraping pipeline with 52 global researchers at Omdena, delivering insights that advanced media inclusivity.

## Extra-curricular Activities

- Chief Editor, School's Newspaper (3 years): Led a 15-member team and boosted readership by 30%
- Demonstrated excellence in public speaking and debate in school, earning 2-time Debate Champion status and Orator of the Year recognition.

## Certifications

- IAMNEO Data Science using Python
- IMARTICUS Investment Banking Operations
- INSPIRE Scholarship for higher education by DST, Maharashtra - Recognized for academic excellence in STEM fields