

# Anushka Mandekar

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## Education:

### VIT Bhopal University

- BTech in Computer Science and Engineering with minors in Health Informatics (Expected Graduation: May 2026)
- Cumulative GPA: 8.42

### 12th Standard

- Nasik Presidency Junior College, Nashik, Maharashtra (June 2021)
- Cumulative GPA: 9.55

### 10th Standard

- Wisdom High International School, Nashik, Maharashtra (July 2019)
- Cumulative GPA: 9.25

## Technical Skills:

- Data and tools: Python, SQL, DBMS, Microsoft Excel, Django, Git, Selenium, Web Scraping.
- Analytics: Machine Learning Fundamentals, Statistics, Exploratory Data Analysis (EDA), Data Cleaning, Feature Engineering, Data Visualization.
- Business and project skills: Requirement gathering, timeline management, cross-functional collaboration, reporting, delivering demos, and creating presentations.

## Projects:

- Travel Itinerary generating website (March 2024):** Python (Django), MySQL, HTML, CSS, JavaScript, Google Maps API
  - Led development of a full-stack web app that generated personalized travel itineraries by analyzing 1M+ real-time datasets and user preferences. Integrated data from 1,050+ destinations and 1,500+ restaurants to curate optimized plans using rule-based filtering, behavioral logic, and Google Maps API for geolocation mapping.
  - Streamlined feature rollouts by taking user reviews, translating feedback into roadmap priorities, and coordinating cross-functional teams to achieve 100% on-time delivery
  - Closed a critical gap in travel planning caused by scattered data and generic recommendations. Cut user planning time by 70% by delivering real-time, preference-based itineraries, boosting efficiency, cost-effectiveness, and user satisfaction.
- Malaria Detection GUI (August 2023):** Python (Pandas, NumPy, Keras, TensorFlow, Scikit-learn, Seaborn), VGG-19, Tkinter
  - Spearheaded development of an AI-driven GUI for automated malaria detection, leveraging deep learning-based image classification on 27,000+ blood smear images. Conducted comparative analysis of VGG-19 and custom CNNs to optimize accuracy, and integrated predictive analytics into an intuitive interface for early, reliable diagnosis.
  - Ensured seamless delivery by assigning tasks, tracking progress, and resolving blockers ahead of deadlines.
  - Reduced misdiagnosis by over 40% in high-risk, low-resource settings through integrated predictive analytics and an intuitive diagnostic interface.
- Urban Growth Forecasting and Zoning Optimization System (April 2025):** Python, Google Earth Engine.
  - Built a predictive analytics framework to help local planners for urban planning within a 100 km radius of VIT Bhopal, integrating 3,000+ remote sensing data points, 8 government reports, and census data from 1961 to 2011. Designed four predictive models for land use optimization, population growth forecasting, water scarcity risk detection, and traffic flow analysis.
  - Addressed challenges of unplanned urbanization and resource misallocation by building forecasting models in Python to estimate population and infrastructure needs. Conducted zoning optimization and risk analysis for traffic congestion and water supply using spatial tools like QGIS and Earth Engine.
  - Collaborated with planners and technical team members to align model outputs with practical urban development requirements and ensure deliverables met agreed timelines.

## Extracurricular Activities:

- Engineered a prototype at American Express Hackathon for automated financial planning, integrating real-time spend analysis and simulating a 15% increase in user savings by optimizing spending patterns.
- 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 by delivering persuasive, high-impact speeches.
- Directed successful Farewell and Sports Day events, logistics for over 500 attendees and supervising a team of 20 volunteers.

## Certifications:

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

