

Anushka Mandekar

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Education:

VIT Bhopal University

- BTech in Computer Science and Engineering with minors in Health Informatics
 - Cumulative GPA: 8.39 (Expected Graduation: May 2026)
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Technical Skills:

- Tech Stack: Python, Java, SQL, DBMS, Microsoft Excel, Git, Django, Selenium, Web Scraping.
 - Data Science: Machine Learning Fundamentals, Statistics, EDA, Data Cleaning, Feature Engineering, Data Visualization.
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Projects:

- Travel Itinerary generating website (March 2024):** Web Development, Personalization Algorithms
 - 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.
 - Identified a critical gap in travel planning caused by scattered data and generic recommendations; developed a platform delivering real-time, personalized itineraries, reducing planning time by 70% and significantly enhancing efficiency, cost-effectiveness, and user satisfaction.
 - Tech Stack: Python (Django), MySQL, HTML, CSS, JavaScript, Google Maps API
 - Malaria Detection GUI (August 2023):** Machine Learning, Computer Vision, Deep Learning
 - 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.
 - Addressed the need for faster, accurate malaria diagnosis by leveraging AI to analyze thousands of blood smear images, reducing misdiagnosis by over 40% and enabling early intervention in high-risk, low-resource settings.
 - Tech Stack: Python (Pandas, NumPy, Keras, TensorFlow, Scikit-learn, Seaborn), VGG-19 CNN, Tkinter GUI
 - Omdena Nepal Local Chapter (May 2023):** Web Scraping, Data Analysis, Media Representation
 - Developed a scalable web scraping system in collaboration with a 52-member global AI team, extracting and processing 65 media datasets from over 120 online news platforms. Applied data cleaning and transformation techniques to prepare over 10,000 data points for diversity trend analysis.
 - Tackled media underrepresentation by identifying biases and visibility gaps across gender, ethnicity, and region. The project aimed to amplify marginalized voices through data-backed insights, supporting advocacy for more inclusive media coverage and evidence-based storytelling.
 - Tech Stack: Python (Selenium, Pandas), HTML, Exploratory Data Analysis (EDA)
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Extracurricular Activities:

- Core Marketing Team Member, Health-O-Tech Club: Orchestrated 5 health awareness campaigns, reaching over 500 students via strategic outreach for Health-O-Tech Club.
 - 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.
 - Directed successful Farewell and Sports Day events, managing logistics for over 500 attendees and supervising a team of 20 volunteers.
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Certifications:

- IAMNEO Data Science using Python
 - IBM Data Science Orientation – Fundamentals of data analysis, statistical methods, and AI-driven insights
 - Coursera: Data Cleaning and analysis in Excel – Advanced Excel techniques for data visualization & analysis
 - INSPIRE Scholarship for higher education by DST, Maharashtra - Recognized for academic excellence in STEM fields
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Languages: Hindi, English, Marathi

