

Devansi Mahatar

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EDUCATION

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| VIT Bhopal University (Bhopal), Madhya Pradesh, India <i>Bachelor of Technology in Computer Science and Engineering (Specialization in E-Commerce Technology)</i> | 2022-2026 CGPA 8.82/10 |
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WORK EXPERIENCE

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| Data Science Intern Sabudh Foundation (Link) | Remote, Jan 2025 - June 2025 |
| • Built an LLM-powered document analysis system using RAG, LangChain, Pinecone , enabling 60% faster insight extraction with AWS S3 for scalable storage | |
| • Implemented semantic retrieval with OpenAI embeddings , optimized chunking & ranking for multi-document query accuracy | |
| • Developed SQL agent and Streamlit interface for structured data exploration and real-time insight visualization | |

PROJECTS

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| 1. MindCare - AI enabled Mental health platform | Aug 2025 - Present |
| • Building a multimodal sentiment model integrating BERT , audio MFCCs and a CNN face classifier for more accurate emotional-state prediction | |
| • Designing recommendation engine, collaborative filtering and deep learning used to match users with suitable psychologists | |
| • Constructing GPT-4 powered conversational AI and smart scheduling modules to streamline mental health support | |
| 2. InvoiceShield - Invoice anomaly detection system | Sep 2024 |
| • Extracted invoice fields with EasyOCR achieving 90% structured accuracy across vendor, tax and line-item data | |
| • Flagged anomalies using Isolation Forest, One-Class SVM and rule-based checks, improving error detection by 35% | |
| • Analyzed vendor price trends with DBSCAN clustering to identify abnormal rate spikes and duplicates | |
| • Stored parsed data in PostgreSQL and served anomaly insights through a FastAPI endpoint for seamless review | |
| 3. BookPilot - Personalized book recommender | June 2024 |
| • Developed a hybrid recommendation model using TF-IDF vectors, cosine similarity , and metadata-based scoring for personalized book ranking of 10k+ books | |
| • Integrated a price comparison module using BeautifulSoup, REST API and MySQL to fetch best deals from Amazon, Flipkart | |
| • Designed a lightweight Flask based dashboard with Plotly to visualize user pattern, wishlist activity and engagement trends | |

TECHNICAL SKILLS

Programming: Python, C++, SQL, HTML, CSS

Frameworks: Pandas, NumPy, Scikit Learn, Matplotlib, Seaborn, TensorFlow

Tools: MySQL, Power BI, Excel, Git

Concepts: NLP, OOP, DSA, SDLC, MLOps, CN, OS, DBMS

Platforms: Jupyter Notebook, VS Code, Github

ACHIEVEMENTS

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| • National Semi-Finalist, Flipkart GRiD 7.0 (Aug 2025) |
| • Winner, Folk It Up: Folk Art Painting by IIT Ropar (Oct 2024) |
| • 3rd round Qualifier, Arthneeti 4.0 by IIM Nagpur (Nov 2024) |
| • Completed, 2nd round (Technical interview), Google STEP internship (Feb 2024) |

CERTIFICATIONS

Quantum Data Analytics Job Simulation (Forage) - A/B testing & performance benchmarking |

Oracle Analytics Cloud Professional | OCI Generative AI Professional | HackerRank SQL Basic and Intermediate skill certificates

EXTRACURRICULAR ACTIVITIES

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| 1. Meraki-The Fine Arts Club (Decor Team Lead) | July 2024 - May 2025 |
| • Led the decor team across 10+ college events , driving theme execution, design coordination, and smooth event operations | |
| 2. E-Commerce Club (Design Team Co-Lead) | Dec 2023 - May 2025 |
| • Designed 8+ event posters and supported workshops, hackathons, and pitch events, contributing to higher club engagement | |

LANGUAGES Hindi, English, Odia, Conversational Proficiency in Tamil