

# Devansi Mahatar

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## EDUCATION

**VIT Bhopal University** (Bhopal), Madhya Pradesh, India 2022-2026  
*Bachelor of Technology in Computer Science and Engineering (Specialization in E-Commerce Technology)* CGPA 8.82/10

## WORK EXPERIENCE

**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

**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

- 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

Quantium 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

**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