

Abhishek Vasant Deshmukh

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PROFESSIONAL SUMMARY

MCA student and aspiring **Data Scientist** with hands-on experience building IoT and AI/ML projects. Co-developed and shipped a production full-stack application, serving **40+ active users**. Recognized as a **Top 5 Finalist** in the GDG "Solve for Goa" Hackathon

EDUCATION

- Master of Computer Applications, Goa Business School** Jun 2025 – Present | Taleigao, North Goa
• CGPA: 7.85/10
- BSC in Computer Science, Dhempe College Of Arts and Science** Jun 2023 – May 2025 | Miramar, Panjim
• CGPA: 7.24/10

SKILLS

Programming Languages: Java, SQL, Python

Data Science: Data Analysis, Data Preprocessing, LangChain, Machine Learning

Frameworks & Libraries: Pandas, NumPy, Streamlit, FastAPI

Database and Tools: Git/GitHub, Linux, MongoDB, Render, Firebase, MySQL, Vercel, PowerBI

WORK EXPERIENCE

- Artisan's Canvas** 🔗, *Freelance Web Developer* Nov 2025 – Dec 2025 | Remote
- Designed and deployed a responsive web application with a custom inquiry workflow, driving a **30% increase** in digital inquiries within the first month.
 - Boosted user engagement and trust by implementing a dynamic review system and a requirement-based quote feature, replacing fixed pricing.

PROJECTS

- Natural Language to SQL** 🔗 Mar 2026 – Apr 2026
- Co-developed a hybrid full-stack AI application leveraging **LLMs (Groq/Ollama)** translating natural language into **SQL**, offering a dynamic toggle between high-speed cloud processing (**~3.5s latency**) or **100% private offline execution** — compressed from several minutes to a 30–90s window (60s avg) on resource-constrained hardware.
 - Built a secure backend with **context-aware RBAC** to dynamically mask PII, achieving a **100% interception rate** against destructive DDL/DML queries, alongside real-time MySQL execution.
- Fish Disease Detection & Identification** 🔗 Mar 2026 – Apr 2026
- Co-Engineered a **computer vision** pipeline integrating four CNN architectures (**EfficientNet, DenseNet, ResNet, and MobileNet**) for multi-class image classification.
 - Developed a **FastAPI** web app with an AI summarization engine to generate concise diagnostic reports, translating complex symptoms into actionable, immediate care steps for non-expert farmers.
- Abstracts- ResearchHub** 🔗 Jan 2026 – Mar 2026
- Shipped a production full-stack web application (MERN) with 40+ active users**, integrating the Semantic Scholar API to search, filter, and organize academic papers via a state-preserving, responsive UI.
 - Developed a contextual AI chat assistant (Groq API)** that processes user queries against research data in real time, surfacing relevant paper summaries and suggestions to accelerate literature discovery.
 - Engineered secure authentication and data validation** — JWT-based sessions, Firebase Auth integration, and strict input sanitization across frontend and backend layers to protect user research library integrity.

ACHIEVEMENTS

- Finished as Top 5 Team Finalist, Solve for Goa Hackathon** Feb 2026
- For addressing the Fair Share Water Audit problem statement