

OMKAR BABAR

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EDUCATION

B.Tech in Computer Science (Cloud Computing and Automation)

CGPA: 8.46

VIT Bhopal University

SKILLS

Languages: Java, Python
Web: HTML, CSS, Tailwind CSS, JavaScript, React
Databases: MySQL, PostgreSQL, MongoDB
Version Control: Git, GitHub
Cloud/DevOps: Docker, Firebase, AWS, GenAI

PROJECTS

Dhruv Tara – Educational Web Platform

- Created a full-stack educational platform where students can watch video lectures and interact in real-time.
- Integrated a GenAI chatbot beside each video to answer questions while learning, enhancing student engagement.
- Developed a summarizer that generates short and clear summaries of videos of any languages.
- Built a recommendation system that suggests courses based on what users search for and view.
- Implemented secure user authentication and session handling using Firebase Authentication.
- **Technologies:** *HTML, CSS, JavaScript, Python, Firebase, Groq API, GenAI*

Airline Management System

- Developed a Java-based desktop system to manage flight bookings, cancellations, and customer information.
- Designed a real-time seat booking feature that updates availability and supports ticket changes.
- Added role-based access for airline staff and admins to easily manage passenger and flight data.
- Connected the system to a MySQL database using JDBC for smooth data access and updates.
- **Technologies:** *Java, MySQL, JDBC, Apache NetBeans*

Multi-Cancer Detection Website

- Built a React-based website that enables cancer detection by uploading MRI images.
- Integrated multiple deep learning models in `.onnx` format for detecting different cancers, including: Acute Lymphoblastic Leukemia, Brain Tumor, Breast Cancer, Cervical Cancer, Kidney Cancer, Lung and Colon Cancer, Lymphoma, and Oral Cancer.
- Used Flask as the backend to handle model inference and image processing.
- Designed a user-friendly interface for patients and doctors to easily upload images and receive results.
- **Technologies:** *React, Flask, ONNX, Python, NumPy, TensorFlow, Keras*

EXTRACURRICULAR ACTIVITIES

Technical Co-Lead, Eureka Club

- Led and mentored a team of peers in hackathons and technical events, designed workflows for smooth execution, and contributed to the success of Advitya and other major tech initiatives.

Finance & Documentation Head, Android Club

- Managed event budgets, prepared detailed reports, maintained accurate documentation, and coordinated multiple technical workshops and club activities.

CERTIFICATIONS

- **DevOps & Agile** — IBM Career Education Program
- **AWS Academy Cloud Foundations** — Amazon Web Services (AWS)
- **Complete Generative AI Course With Langchain and Huggingface** — Udemy
- **Complete web development course** — Udemy
- **Data Structures in JAVA** — Coding Ninjas