

OMKAR BABAR

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EDUCATION

VIT Bhopal University

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

Expected May 2026

CGPA: 8.46

SKILLS

Languages: Java, Python

Web: HTML, CSS, Tailwind CSS, React, JavaScript

Databases: MySQL, PostgreSQL, MongoDB

Version Control: Git, GitHub

Cloud: Firebase, AWS

Frameworks & Tools: Gen AI, Flask, TensorFlow, Keras, JDBC, REST API, Matplotlib, Seaborn, scikit-learn, SMOTE

PROJECTS

Dhruv Tara - A Gen AI Based Educational 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.
- Used **openai/gpt-oss-120b** model to generate answers and summarization.
- Developed a summarizer that generates short and clear summaries of videos in any language.
- 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 flight booking management system enabling booking, cancellation, and customer management.
- Implemented real-time seat availability updates with transaction-safe booking and modification features.
- Integrated **MySQL** using **JDBC** with optimized connection pooling for faster data access.
- MVC architecture to enhance maintainability and modular design.
- Technologies:** Java, MySQL, JDBC, MVC, Apache NetBeans

Credit Card Fraud Detection using Deep Learning

- Developed a deep learning model to identify fraudulent credit card transactions with high precision and recall.
- Addressed severe class imbalance using the **SMOTE (Synthetic Minority Over-sampling Technique)** algorithm to generate synthetic samples.
- Designed a **Feedforward Neural Network (FNN)** with two hidden layers using TensorFlow/Keras and optimized performance with Early Stopping.
- Achieved 99.9% accuracy, 99.68% precision, and 99.82% F1-Score on the test dataset.
- Technologies:** Python, TensorFlow, Keras, NumPy, Pandas, scikit-learn, Matplotlib, Seaborn, SMOTE

ACHIEVEMENTS

- Solved 300+ problems on LeetCode
- Participated in EY Techathon 6.0

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

- Data Structures in Java** – Coding Ninjas
- AWS Academy Cloud Foundations** – Amazon Web Services (AWS - Credly)
- Complete Generative AI Course With Langchain and Huggingface** – Udemy
- Complete web development course** – Udemy