

OMKAR BABAR

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EDUCATION

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

CGPA: 8.46

SKILLS

Languages:	Java, Python
Web:	HTML, CSS, Tailwind CSS, JavaScript, React
Databases:	MySQL, PostgreSQL, MongoDB
Version Control:	Git, GitHub
Cloud/DevOps:	Firebase, AWS, GenAI
Frameworks & Tools:	Flask, TensorFlow, Keras, JDBC, REST API, Matplotlib, Seaborn, scikit-learn, SMOTE

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.
- 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, REST API Integration, 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.

ACHIEVEMENTS

Solved 300+ problems on LeetCode

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