OMKAR BABAR

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PROFILE

B.Tech Computer Science student specializing in Cloud Computing and Automation. Skilled in Java, Python, React, Tailwind CSS, and AWS. Experience in using Docker, Git, Firebase, and GenAI tools. Passionate about building scalable applications and integrating AI with native cloud technologies.

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*

Brain Tumor Detection using CNN

· Designed a deep learning model using MobileNet to identify brain tumors from MRI scans with high accuracy.
· Preprocessed the scans by converting them to grayscale, normalizing, and augmenting images to increase training.
· Achieved 99.4% accuracy and evaluated the model using metrics such as precision, recall, and F1 score.
· *Technologies: Python, TensorFlow, Keras, NumPy, Google Colab*

POSITIONS OF RESPONSIBILITY

Technical Co-Lead, Eureka Club ● Led hackathons, mentored peers, contributed to Advitya, and coordinated major tech events.
Finance and Documentation Head, Android Club ● Managed event budgets, handled documentation, and coordinated multiple technical workshops.