

# Omkar Babar

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## PROFILE

I am Omkar Babar, a skilled software engineer with expertise in Java and Python, specializing in Artificial Intelligence (AI), Machine Learning (ML), and Generative AI (GenAI). I have worked on multiple projects leveraging AI/ML to solve real-world problems and have hands-on experience with AWS cloud services for scalable deployment.

## EDUCATION

<b>B.Tech, VIT Bhopal</b> CGPA - 8.24	2026
<b>Intermediate - H.S.C, Lal Bahadur Shahtri Jr. College</b> 83.33%	2022
<b>Matriculation - CBSE Board, Vivekananda English School</b> 93.0%	2020

## PROJECTS

### Airline Management System

- **Developed an Airline Management System** using **Java** with **MySQL** for efficient flight, booking, and customer management.
- **Implemented JDBC** for seamless database connectivity, ensuring real-time data updates and retrieval.
- **Designed and managed flight booking system**, allowing users to book, modify, and cancel tickets with dynamic seat availability.
- **Integrated employee and customer management modules** for handling airline staff records and passenger details.

### Brain Tumor Detection

- **Developed a Brain Tumor Detection model** using **Convolutional Neural Networks (CNN)** for automated tumor classification.
- **Utilized Python and TensorFlow/Keras** for model training and deep learning implementation.
- **Preprocessed MRI scan images** using OpenCV and NumPy to enhance feature extraction and improve accuracy.
- **Trained the model on a labeled dataset** and optimized it using techniques like data augmentation and hyperparameter tuning.
- **Achieved high classification accuracy** and evaluated performance using metrics like **accuracy, precision, recall, and F1-score**.

## SKILLS

- |           |          |        |       |
|-----------|----------|--------|-------|
| • Java    | • Python | • HTML | • CSS |
| • AI & ML | • Gen AI | • AWS  |       |

## EXTRACURRICULAR

### Finance and Documentation, Android Club

- Managed finance and documentation, ensuring efficient resource allocation and record-keeping.
- Organized various technical events and workshops, promoting learning and innovation.
- Gained valuable insights into team coordination, financial management, and career growth.

### Techinal Co-Lead, Eureka Club

- Organized various technical events, including hackathons, fostering innovation and collaboration.
- Contributed to Advitya, enhancing technical engagement and project execution.
- Led and mentored teams, driving successful event management and participation.