ATHARVA CHALIKWAR

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Education

VIT Bhopal University - CGPA: 8.86   **2022 −2026**
B.Tech in Computer Science (Specialisation in Gaming Technology)

NSB College - HSC   **2021 − 2022**
Percentage- 84.83%

Christ International School   **2020 −2021**
Percentage - 87.4%

Relevant Coursework

- Data Structures
- Algorithms Analysis
- Artificial Intelligence
- Systems Programming
- Software Methodology
- Database Management
- Internet Technology
- Computer Architecture

Experience

CodeAlpha   **Feb 2025 − Mar 2025**
Software Engineer Intern

− Developed Java-based applications, enhancing logic-building and problem-solving skills.

− Collaborated on real-world coding tasks, applying object-oriented programming principles and improving debugging proficiency in Java.

Projects

Pneumonia Detection using CNN   *Python, TensorFlow/Keras, OpenCV, NumPy, Pandas, Matplotlib*

− Designed and implemented a deep learning model to detect pneumonia from chest X-ray images with high diagnostic accuracy.

− Used custom CNN achieving 97.21% accuracy and 97.37% F1-score on a pediatric dataset of 5,856 labeled images.

− Applied dropout regularization (40%) within convolutional layers, improving generalization and boosting AUC to 0.982.

− Enabled real-time inference with 122ms per image, supporting deployment in resource-constrained healthcare environments.

AdoptBuddy – A Pet Adoption Platform   *MERN Stack: MongoDB, Express.js, React.js, Node.js*

− Developed a full-stack pet adoption platform allowing users to list pets and apply for adoptions via a modern web interface.

− Implemented secure CRUD operations and data persistence with MongoDB; enabled admin approval and record-keeping.

− Built an Admin Panel for reviewing pet listings, selecting adopters, and managing adoption records efficiently.

− Integrated image upload, pet-type filtering, and detailed pet profiles for an engaging and user-friendly experience.

Technical Skills

Languages: Python, Java, C, HTML/CSS, JavaScript, SQL

Developer Tools: VS Code, Eclipse, Google Cloud Platform

Technologies/Frameworks: Pandas, NumPy, GitHub

Certifications & Courses

- Foundations of Cyber Physical Systems – NPTEL

- AWS Solutions Architect Certification – ETHNUS

- MERN Full Stack – ETHNUS