

Archita Bajpai

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Summary

AI/ML-focused Computer Science Engineering student with experience designing, deploying, and optimizing machine learning systems. Skilled in building end-to-end ML pipelines, scalable APIs, and data-driven solutions with measurable impact on performance, efficiency, and decision-making. Interested in applying responsible AI to large-scale systems in technology and finance.

Technical Skills

Languages: Python, Java, SQL, JavaScript

ML/AI: NumPy, Pandas, Scikit-learn, PyTorch, NLP, Model Evaluation (Accuracy, F1, ROC-AUC)

Web/Frameworks: Flask, FastAPI, React, Next.js, HTML, CSS

Tools: Git, GitHub, Docker, Kubernetes, AWS, OCI, Jupyter Notebook, VS Code, Tableau, Excel

Databases: MySQL, MongoDB, Supabase

Projects

Multiple Disease Prediction System

Python, Machine Learning

- Built a multi-class ML model on 10,000+ medical records, improving F1-score to 0.84 (+9% over baseline).
- Automated prediction workflows, reducing diagnostic turnaround time and improving operational efficiency.

Dental Disease Prediction

Python, ML, FastAPI

- Developed a transfer-learning image classifier achieving F1-score of 0.81 and tracked ROC-AUC performance.
- Deployed a FastAPI inference service with sub-80 ms latency for scalable real-time predictions.

StraySafe

Python, Machine Learning

- Designed an AI-driven risk scoring model with ROC-AUC of 0.86 integrated into operational workflows.
- Reduced manual coordination time by approximately 40% through automated case prioritization.

EduSaarthi – AI Multilingual Chat Platform For Teachers

Next.js, TypeScript, OpenAI API

- Built a real-time multilingual AI chat platform with persistent storage and mobile-first UI design.
- Improved scalability and user engagement through optimized backend and responsive frontend architecture.

Experience

Digital Transformation Intern

Cygnux Softtech Pvt Ltd, Jul 2025 – Sep 2025

- Analyzed operational and customer data to identify inefficiencies and recommend digital solutions.
- Collaborated with cross-functional teams to translate business requirements into technical implementations.

Full Stack Developer Intern

Give My Certificate, Apr 2025 – Jul 2025

- Designed scalable full-stack applications using React and Node.js with clean architecture principles.
- Developed RESTful APIs and optimized workflows, improving system performance and usability.

Education

B.Tech in Computer Science & Engineering (AI/ML)

2023 – 2027

VIT Bhopal University — CGPA: 8.91

Air Force School, Agra (CBSE)

Class XII: 77.6% (2022) Class X: 92.8% (2020)

NCC 'A' Certificate Holder

Achievements & Certifications

- Top 8% finalist at CodeVerse Hackathon, VIT Bhopal (2025).
- Finalist, Serve-Smart Hackathon, IIT BHU (2025).
- OCI Certified Generative AI Professional, Oracle (2025).
- OCI Certified Data Science Professional, Oracle (2025).
- Cloud Computing, NPTEL (IIT Kharagpur) (2025).