

ARCHITA BAJPAI

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PROFESSIONAL SUMMARY

Computer Science Engineering student specializing in Artificial Intelligence and Machine Learning, with hands-on experience building machine learning models, data-driven applications, and scalable web solutions. Proficient in Python and Java, with a strong foundation in software engineering, data science, and modern web technologies.

EDUCATION

Bachelor of Technology - Computer Science & Engineering

VIT Bhopal University | 8.91 CGPA | 2023 - 2027

Specialization: Artificial Intelligence & Machine Learning

Higher Secondary Education (Class XII) | 2022

Air Force School, Agra | CBSE Board

TECHNICAL SKILLS

Programming Languages: Python, C++, Java

Web Technologies: HTML5, CSS3, JavaScript, React

ML/DS: scikit-learn, pandas, NumPy, Matplotlib/Seaborn, basic PyTorch/TensorFlow

Tools & Technologies: Git, GitHub, Jupyter Notebook, VS Code, Tableau, Excel, MATLAB

Databases: MySQL, Supabase

MLOps/Cloud: AWS, OCI, Git/GitHub, Jupyter, Docker

PROJECTS

Multiple Disease Prediction System | Python, Machine Learning, Data Analysis | September 2024 - December 2024

- Built a multi-class diagnostic model on 10k+ patient records; achieved F1 = 0.84 (9-point gain over baseline) using stratified CV.
- Addressed class imbalance, evaluated RF/SVM, and delivered a Tableau dashboard for cohort-level insights.

Dental Disease Prediction | Python, Machine Learning | January 2025 - March 2025

- Developed a transfer-learning pipeline for dental image classification; achieved F1 = 0.81 on a held-out test set using augmentation and class-balanced sampling.
- Standardized preprocessing and labels, and deployed a FastAPI inference API with batch processing, maintaining <80 ms median CPU latency.

StraySafe Application | Python, Machine Learning | June 2025 - August 2025

- Built a React Native+Node/Mongo app with geofenced alerts and a risk model (ROC-AUC = 0.86) to prioritize rescues, reducing NGO coordination time by ~40%.

CERTIFICATIONS

OCI Certified Generative AI Professional | Oracle | 2025

Applied Machine Learning in Python | Coursera | 2025

OCI Certified Data Science Professional | Oracle | 2025

OCI Certified DevOps Professional | 2025

Oracle Cloud Infrastructure 2025 AI Foundations Associate | Oracle | 2025

Cloud Computing | NPTEL (IIT Kharagpur) | 2025

Machine Learning Fundamentals | Coursera | 2024

EXPERIENCE

Digital Transformation Intern | July 2025 - September 2025

- Analyzed data trends to enhance customer engagement and retention.
- Assisted in implementing innovative digital strategies for clients.
- Developed user-friendly digital tools that improved workflow efficiency.

Full Stack Developer Intern | April 2025 - July 2025

- Built and enhanced full-stack web applications using React on the frontend and Node.js on the backend, focusing on clean, modular, and scalable code.
- Designed and integrated RESTful APIs, handled state management, and optimized application workflows for performance and usability.