# ARCHITA BAJPAI

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## PROFESSIONAL SUMMARY

Computer Science Engineering student specializing in Artificial Intelligence and Machine Learning with 8.93 CGPA. Experienced in developing machine learning applications, predictive models, and web applications. Proficient in Python, Java, and modern web technologies with hands-on experience in data science and software development.

## EDUCATION

**Bachelor of Technology - Computer Science & Engineering**
**VIT Bhopal University | 8.93 CGPA | 2023 - 2027**
Specialization: Artificial Intelligence & Machine Learning
ML, DBMS, OS, AI, Java,DL
**Higher Secondary Education (Class XII) | 2022**
 Air Force School, Agra | CBSE Board
Percentage: 77.6%
**Secondary Education (Class X) | 2020**
 Air Force School, Agra | CBSE Board
Percentage: 92.8%

## TECHNICAL SKILLS

Programming Languages: Python, C++, Java, SQL
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 (S3, EC2, SageMaker), OCI, Git/GitHub, Jupyter, Docker

## PROJECTS

**Multiple Disease Prediction System | Python, Machine Learning, Data Analysis | September 2023 - December 2023**
- Built multi-class diagnostic classifier on 10k+ patient records using stratified 80/20 split and 5-fold cross-validation; best model achieved F1=0.84 outperforming a logistic regression baseline by 9 points.
- Handled class imbalance via class weights; evaluated Random Forest and SVM with precision/recall analysis.
- Delivered a Tableau dashboard with cohort filters enabling clinicians to explore risk segments and feature importance.

**Dental Disease Prediction | Python, Machine Learning | January 2025 - March 2025**
- Developed transfer-learning pipeline on dental images with augmentation, early stopping, and class-balanced sampling; achieved F1=0.81 on a held-out test set.
- Standardized preprocessing , curated label schema (cavity, gingivitis, periodontitis).
- Packaged inference as a lightweight API (FastAPI) with batch processing to keep median latency under 80 ms on CPU.

**StraySafe Application | Python, Machine Learning | June 2023 - August 2023**
- React Native + Node/Mongo app with geofenced alerts; risk model ROC–AUC=0.86 prioritized rescues.
- Streamlined NGO workflows, ~40% faster coordination.

## CERTIFICATIONS

Oracle Cloud Infrastructure 2025 AI Foundations Associate | Oracle | 2025
OCI Generative AI Professional | Oracle | 2025
OCI Data Science Professional | Oracle | 2025
Cloud Computing | NPTEL (IIT Kharagpur) | 2025
Machine Learning Fundamentals | Coursera | 2024
MATLAB Onramp | MathWorks | 2023

## 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.

## EXTRACURRICULAR ACTIVITIES

Leadership/Group participation
- NCC girl's troop commander | Air Force School  | 'A' Certificate holder | 2021
- E-Cell club | Active Member | VIT Bhopal | 2023- present
- North-East Club | Active Member | VIT Bhopal | 2023- present

Hackathons/Technical Achievements
- Top 8% finalist (Top 50/600+) at CodeVerse hackathon (VIT Bhopal) | July 2025.
- Finalist, Serve-Smart Hackathon (IIT BHU) | January 2025.
- Data Science Club – Quiz Winner (VIT Bhopal) | 2024

## LANGUAGES

English: Professional Proficiency
Hindi: Native
Japanese: Basic (Learning)