

# ARCHITA SHRIVASTAVA

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## EDUCATION

<b>Vellore Institute of Technology</b>	<b>November 2022- May 2026</b>
B.Tech in Computer Science, CGPA: 8.40	Bhopal, India
<b>Delhi Public School Kolar Road</b>	<b>March 2021- May 2022</b>
Class XII (CBSE)	Bhopal, India
<b>Delhi Public School Kolar Road</b>	<b>March 2019- May 2020</b>
Class X (CBSE)	Bhopal, India

## TECHNICAL SKILLS

Machine Learning (Supervised & Unsupervised Techniques, Model Evaluation, Hyperparameter Tuning), TensorFlow, OpenCV, AWS, Streamlit, Flask, Python, SQL, C++

## EXPERIENCE

<b>Data Science and Analytics Intern   Zidio Development</b>	<b>January 2025 - February 2025</b>
<ul style="list-style-type: none"><li>Engineered automated ETL workflows in Python that streamlined raw data processing, cutting preparation time by 70% and ensuring consistently clean datasets for downstream analytics.</li><li>Formulated and tested predictive models to uncover player performance drivers, improving the accuracy of match outcome forecasts to ~88% and supporting better decision-making for strategy teams.</li><li>Constructed interactive dashboards and trend visualizations, enabling leadership to monitor patterns in real time and evaluate player performance against historical benchmarks.</li><li>Delivered comprehensive reports that translated technical insights into actionable recommendations, simplifying complex data into clear narratives for non-technical stakeholders.</li></ul>	

## PROJECTS

<b>Smart Vision System for Real-Time Vehicle Analytics</b>	<b>May 2025 - June 2025</b>
<ul style="list-style-type: none"><li>Implemented a YOLOv8-based detection system for 12+ vehicle classes and 767+ images, achieving 86.8% mAP, 92.2% precision, and 81.1% recall—including low-light robustness.</li><li>Deployed a Streamlit + OpenCV dashboard for real-time vehicle counts and monitoring, designed with enterprise-style analytics.</li><li>Automated reporting pipelines that summarized vehicle counts, peak hours, and anomalies, assisting policy makers and transport authorities in planning.</li><li>Enhanced model efficiency by tuning inference speed and accuracy, ensuring smooth deployment on resource-constrained environments.</li></ul>	
<b>VitalAI: Scalable Healthcare Prediction API</b>	<b>September 2024 - December 2024</b>
<ul style="list-style-type: none"><li>Engineered end-to-end predictive models for Diabetes, Heart Disease, and Blood Sugar using XGBoost, SVM, and CatBoost, achieving ROC-AUC up to 0.88 and ensuring interpretability with LIME and SHAP.</li><li>Applied advanced feature engineering (BMI–Pulse Pressure ratios, polynomial &amp; interaction terms) and EDA with correlation analysis, raising model F1 scores by 15–20% over baseline.</li><li>Designed modular ML pipelines with preprocessing (imputation, scaling, encoding), serialized via joblib, ensuring scalable and reproducible training-to-inference workflows.</li><li>Launched models as RESTful APIs using FastAPI, enabling real-time healthcare predictions and seamless integration into enterprise digital health platforms.</li></ul>	

## Intelligent Conversational System on PDF Files

**March 2024 - April 2024**

- Developed an NLP-driven semantic search system using LangChain, Faiss, and PyPDF2 to extract and interpret information from unstructured PDF documents.
- Reduced manual document review time by over 60% through semantic search and context-aware retrieval mechanisms, improving productivity for research teams.
- Built an interactive Streamlit + Gemini Q&A interface, enabling users to query 10+ page documents conversationally and extract insights in real time.
- Streamlined reporting and document analysis by converting unstructured information into accessible knowledge, enabling better strategic decision-making.

## CERTIFICATIONS

<b>AWS Solutions Architect - Associate Certification (Ethnus)</b>	<b>April 2025</b>
<ul style="list-style-type: none"><li>Demonstrating proficiency in designing secure, scalable, and cost-optimized cloud architectures and hands-on experience with AWS services, including EC2, VPC, Route 53, IAM (users, groups, policies), CloudWatch, and RDS.</li></ul>	
<b>Getting Started with Artificial Intelligence (IBM)</b>	<b>April 2025</b>
<ul style="list-style-type: none"><li>Gained foundational knowledge in AI, understanding core AI concepts, machine learning principles, and practical applications.</li></ul>	

## EXTRA CURRICULARS

<b>Social Work Intern   Kshitiksha Foundation</b>	<b>June 2023 - July 2023</b>
<ul style="list-style-type: none"><li>Contributed to social and environmental causes by planting trees on barren land, distributing food to underprivileged children, and caring for stray animals.</li></ul>	