

# ARCHITA SHRIVASTAVA

LinkedIn: [www.linkedin.com/in/archita-shrivastava-696b4525](https://www.linkedin.com/in/archita-shrivastava-696b4525)  
GitHub: <https://github.com/archita-prog>

Email: [architashrivastava2022@vitbhopal.ac.in](mailto:architashrivastava2022@vitbhopal.ac.in)  
Phone no: 9098299140

## EDUCATION

<b>Vellore Institute of Technology</b> B.Tech in Computer Science, CGPA: 8.40	<b>November 2022- May 2026</b> Bhopal, India
<b>Delhi Public School Kolar Road</b> Class XII (CBSE)	<b>March 2021- May 2022</b> Bhopal, India
<b>Delhi Public School Kolar Road</b> Class X (CBSE)	<b>March 2019- May 2020</b> 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>Developed automated ETL workflows using Python (Pandas, NumPy) to process large-scale IPL datasets, reducing preprocessing time by 70%.</li><li>Implemented and benchmarked supervised &amp; unsupervised ML models (K-Means, Logistic Regression, Random Forest, Linear Regression), optimizing hyperparameters to attain ~88% accuracy.</li><li>Constructed interactive dashboards with Matplotlib and Seaborn, equipping stakeholders with actionable insights on player performance and team strategies.</li><li>Delivered a Sports Analytics: Predicting IPL Match Outcomes with ML using feature engineering (strike rate, economy rate, win-loss history), recording ~85% forecast accuracy.</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>Enhanced inference speed and accuracy, balancing model performance for edge deployment.</li><li>Synthesized business insights from detection results with automated reports, data visualizations, and summary tables to drive data-driven decisions.</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>	
<b>Intelligent Conversational System on PDF Files</b>	<b>March 2024 - April 2024</b>
<ul style="list-style-type: none"><li>Developed an NLP-driven semantic search system using LangChain, Faiss, and PyPDF2 to extract and interpret information from unstructured PDF documents.</li><li>Executed vector-embedding-based retrieval, enabling context-aware answers beyond simple keyword search and improving interpretability for complex queries.</li><li>Built an interactive Streamlit + Gemini Q&amp;A interface, enabling users to query 10+ page documents conversationally and extract insights in real time.</li><li>Simplified large-scale document review workflows (audits, contracts, compliance), attaining 75%+ retrieval accuracy and reducing manual analysis effort by over 60%.</li></ul>	

## 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>	