

# 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: 8.35	India
<b>Delhi Public School Kolar Road</b>	<b>March 2021- May 2022</b>
Class XII (CBSE), Percentage: 87.8%	Bhopal, India
<b>Delhi Public School Kolar Road</b>	<b>March 2019- May 2020</b>
Class X (CBSE), Percentage: 87.4%	Bhopal, India

## TECHNICAL SKILLS

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

## EXPERIENCE

<b>Data Science and Analytics Intern   Zidio Development</b>	<b>January 2025 - February 2025</b>
<ul style="list-style-type: none"><li>Built Python-based ETL pipelines (Pandas, NumPy) for IPL datasets, reducing manual preprocessing by ~70% and improving data consistency.</li><li>Evaluated and selected ML models (Logistic Regression, Random Forest, K-Means, Linear Regression) based on stability and interpretability, achieving ~88% accuracy.</li><li>Created analytical dashboards to clearly communicate player and match insights to seniors members.</li><li>Delivered a match outcome prediction workflow using domain-driven feature engineering, reaching ~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>Developed a YOLOv8-based vision pipeline for 12+ vehicle classes using 767+ images, achieving 86.8% mAP with strong low-light performance.</li><li>Integrated live camera streaming and real-time inference into a Streamlit app for capture and export of traffic footage.</li><li>Improved inference speed through model compression and OpenCV preprocessing, enabling near-real-time and edge deployment.</li><li>Added automated visual summaries to help stakeholders monitor traffic patterns and make fleet-level decisions.</li></ul>	
<b>VitalAI: Scalable Healthcare Prediction API</b>	<b>September 2024 - December 2024</b>
<ul style="list-style-type: none"><li>Constructed predictive models for Diabetes, Heart Disease, and Blood Sugar risk using XGBoost, SVM, and CatBoost, achieving ROC-AUC up to 0.88.</li><li>Improved baseline model performance by 15–20% through targeted feature engineering and structured exploratory data analysis.</li><li>Designed modular ML pipelines for preprocessing, training, and inference, ensuring reproducibility through joblib-based serialization.</li><li>Deployed trained models as RESTful APIs using FastAPI to enable real-time healthcare predictions and easy system integration.</li></ul>	

## Intelligent Conversational System on PDF Files

**March 2024 - April 2024**

<ul style="list-style-type: none"><li>Established an NLP system to search, summarize, and answer questions from multi-page PDFs using LangChain, FAISS, and PyPDF2.</li><li>Enabled context-aware retrieval and semantic search by generating document embeddings and retrieving relevant content dynamically.</li><li>Implemented controlled response lengths (50–500 words) to support flexible summaries and structured report generation.</li><li>Launched the application on Hugging Face Spaces to provide accessible, cloud-hosted access and reproducible deployment.</li></ul>
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## CERTIFICATIONS

<b>AWS Solutions Architect - Associate Certification (Ethnus)</b>	<b>April 2025</b>
<ul style="list-style-type: none"><li>Hands-on experience designing secure and scalable cloud architectures using EC2, VPC, IAM, Route 53, RDS, and CloudWatch.</li></ul>	

  

<b>Getting Started with Artificial Intelligence (IBM)</b>	<b>April 2025</b>
<ul style="list-style-type: none"><li>Strong foundation in AI concepts, machine learning principles, and real-world 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>Supported environmental and social initiatives through tree plantation drives, food distribution for underprivileged children, and care for stray animals.</li></ul>	