

ARCHITA SHRIVASTAVA

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EDUCATION

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

TECHNICAL SKILLS

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

EXPERIENCE

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| Data Science and Analytics Intern Zidio Development | January 2025 - February 2025 |
| <ul style="list-style-type: none">Engineered automated ETL pipelines in Python (Pandas, NumPy), handling large-scale IPL datasets and reducing preprocessing time by 70%.Implemented and benchmarked supervised & unsupervised ML models (K-Means, Logistic Regression, Random Forest, Linear Regression), optimizing hyperparameters to achieve ~88% accuracy.Built interactive dashboards using Matplotlib & Seaborn, enabling stakeholders to explore trends in player performance, win probabilities, and team strategies.Deployed a Sports Analytics: Predicting IPL Match Outcomes with ML using feature engineering (strike rate, economy rate, win-loss history), achieving ~85% forecast accuracy. | |

PROJECTS

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| Smart Vision System for Real-Time Vehicle Analytics | May 2025 - June 2025 |
| <ul style="list-style-type: none">Designed a production-ready YOLOv8 pipeline using Roboflow + OpenCV, enabling accurate detection across 12+ object classes, even under low-light conditions, improving model robustness for real-world applications.Deployed an interactive end-to-end application with Streamlit, delivering real-time analytics (class-wise vehicle counts,and visual insights) that mimic enterprise-scale monitoring dashboards.Optimized model performance for efficiency, balancing accuracy with inference speed to ensure scalability on resource-constrained environments.Translated raw detections into business intelligence, building automated reporting (summary tables, visualizations) to support data-driven decision-making. | |
| VitalAI: Scalable Healthcare Prediction API | September 2024 - December 2024 |
| <ul style="list-style-type: none">Developed ML models for Diabetes, Heart Disease, and Blood Sugar prediction using XGBoost & SVM, with ROC-AUC and SHAP explainability. Applied advanced feature engineering (BMI, pulse ratios, polynomial/interaction terms) to enhance predictive accuracy.Applied exploratory data analysis (EDA) and correlation heatmaps to validate clinical features and ensure medically interpretable model outcomes.Developed modular preprocessing pipelines with imputation, scaling, and encoding, serialized with joblib to ensure consistent training-to-inference workflows.Deployed ML models via FastAPI, exposing REST APIs to support real-time healthcare prediction services with easy integration into digital platforms. | |
| Intelligent Conversational System on PDF Files | March 2024 - April 2024 |
| <ul style="list-style-type: none">Engineered an NLP-driven conversational system capable of extracting and interpreting information from unstructured PDF documents using LangChain, Faiss, and PyPDF2.Implemented semantic search with vector embeddings, enabling context-aware responses instead of keyword-based retrieval.Deployed an interactive Streamlit app integrating Google Gemini for human-like Q&A on corporate/technical documents.Applications include automating document analysis and insight extraction for audits, contracts, catalogs, and manuals. | |

CERTIFICATIONS

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| AWS Solutions Architect - Associate Certification(Ethnus) | April 2025 |
| <ul style="list-style-type: none">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. | |
| Getting Started with Artificial Intelligence (IBM) | April 2025 |
| <ul style="list-style-type: none">Gained foundational knowledge in AI,understanding core AI concepts, machine learning principles, and practical applications. | |

EXTRA CURRICULARS

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