

ARCHITA SHRIVASTAVA

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EDUCATION

Vellore Institute of Technology B.Tech in Computer Science, CGPA: 8.27 Delhi Public School Kolar Road Class XII (CBSE)	November 2022 - May 2026 Bhopal, India
Delhi Public School Kolar Road Class X (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

Data Science and Analytics Intern Zidio Development	January 2025 - February 2025
<ul style="list-style-type: none">Automated data preprocessing and analysis pipelines in Python, reducing manual processing time by 70%.Applied 4+ ML algorithms (K-Means, Logistic Regression, Linear Regression, and Random Forest) to test model accuracy and cluster patterns, achieving a prediction accuracy of up to 88%.Collaborated with a team of 3 interns to deliver a mini data science solution on time and presented findings to senior developers.	

PROJECTS

YOLOv8 - Real Time Object Detection	May 2025 - Present
<ul style="list-style-type: none">Developed a custom YOLOv8-based vehicle detection system to identify multiple vehicle classes(cars, trucks, buses) with real-time images.Trained model on a custom annotated dataset using Ultralytics YOLOv8 and visualized detection insights using Pandas.Built an interactive Streamlit web app to visualize detections with bounding boxes, class-wise counts.	
Asteroid Classification using XGBoost	September 2024
<ul style="list-style-type: none">Developed a machine learning model using gradient boosting with XGBoost to classify potentially hazardous asteroids.Utilized Scikit-learn for data preprocessing and model evaluation, and Matplotlib for visualizing performance metrics.Achieved 92% accuracy on NASA's dataset through extensive feature engineering and hyperparameter tuning.	
Intelligent Conversational System on PDF Files	March 2024 - April 2024
<ul style="list-style-type: none">Used NLP techniques like tokenization, text classification, and keyword matching to identify and extract key sections from PDF documents using PyPDF2, Faiss, and Vector Store.Implemented semantic search by converting PDF content into vector embeddings and enabling context-aware responses through LLM-powered text generation.Developed an interactive conversation Python app using Streamlit ,LangChain ,and Google Generative AI to generate human like responses from PDFs.	

CERTIFICATIONS

Marketing Analytics (NPTEL)	May 2025
<ul style="list-style-type: none">Scored 81% (Top 5% of 1544 candidates).Covered Marketing metrics, data analysis, regression, segmentation, CLV, A/B testing.	
AWS Academy Graduate - AWS Academy Cloud Foundations (Credly)	April 2025
<ul style="list-style-type: none">Gained expertise in designing highly available, cost-efficient, and scalable cloud architectures.Hands-on knowledge of VPC, EC2, S3, RDS, IAM, Load Balancing, and Auto Scaling.	
Artificial Intelligence (SmartInternz)	April 2025
<ul style="list-style-type: none">Built a deep learning model using CNNs/ViTs to classify jellyfish species, aiding marine biodiversity monitoring.Aimed to assist marine biologists and conservationists in biodiversity research and population monitoring.	

EXTRA CURRICULARS

Social Work Intern Kshitiksha Foundation	June 2023 - July 2023
<ul style="list-style-type: none">Volunteered at Kshitiksha Foundation to distribute food, plant trees, and care for stray animals, promoting sustainability and social welfare.Participated in digital literacy initiatives, tutoring 10 students on using online learning platforms, thereby bridging the digital divide and enriching educational experiences in the most vulnerable community.	
Community Volunteer Help Age India	August 2022
<ul style="list-style-type: none">Participated in donation drives supporting elderly care by contributing essential supplies and raising awareness.	