

ARCHITA SHRIVASTAVA

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EDUCATION

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

Data Science and Analytics Intern | Zidio Development

January 2025 - February 2025

- 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 - June 2025

- 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

- 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

- 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

- 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

- 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

- 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

- 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

- Participated in donation drives supporting elderly care by contributing essential supplies and raising awareness.