ARCHITA SHRIVASTAVA

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EDUCATION

Vellore Institute of Technology — **November 2022 - May 2026**, Bhopal, India
B.Tech in Computer Science; GPA: 8.26

Delhi Public School Kolar Road — **March 2021 - May 2022**, Bhopal, India
Class - XII (CBSE), Grade : 85%

Delhi Public School Kolar Road — **March 2019 - May 2020**, Bhopal, India
Class -X (CBSE) ,Grade - 89%

SKILLS SUMMARY

- **Languages:** Python, SQL, C++
- **Machine Learning:** Classification, Regression, XGBoost
- **Deep Learning Frameworks:** Tensorflow, CNNs, LangChain
- **NLP & Generative AI:** FAISS, Vector Stores, Tokenization, Text Classification
- **Computer Vision:** OpenCV, Image Processing, Object Detection
- **Data Processing & Analytics:** Pandas, NumPy, Matplotlib, Seaborn
- **Cloud & Deployment:** AWS, Streamlit, Flask

INTERNSHIPS

Data Science and Analytics Intern | Zidio Development — **January 2025 - February 2025**
LINK : https://drive.google.com/file/d/1J3fYJlfOtOOKDlkTs0Qzy9J8BGu2PhqF/view?usp=sharing
- Learned about supervised and unsupervised machine learning techniques.
- Automated data preprocessing and analysis pipelines using Python and Pandas.
- Created visualizations in Matplotlib to present insights.

PROJECTS

Asteroid Classification using XGBoost — **September 2024**
LINK : https://drive.google.com/file/d/1MyiIdJeQKWc2tWr-iVfAOaGc37VooUDl/view?usp=sharing
- Developed an **XGBoost-**based classification model to predict hazardous asteroids.
- Achieved **92% accuracy** on NASA's asteroid dataset by optimizing hyperparameters**.**

Diabetes Prediction using Machine Learning — **August 2024**
LINK: https://drive.google.com/file/d/1JFEDl70cNR1h69lr7_H4dlGz_HyMO2jl/view?usp=sharing
- Performed **Exploratory Data Analysis (EDA)** on patient records to identify key diabetes risk factors.
- Trained a **K-Nearest Neighbors (KNN)** model for diabetes **classification**, achieving **85% accuracy.**

Food Classification using Computer Vision — **April 2024 - May 2024**
- Utilized **OpenCV** for feature extraction to enhance **object detection** in food images.
- Trained **CNN**-based deep learning models for food recognition and nutritional estimation.

Intelligent Conversation System on PDF Files — **March 2024 - April 2024**
- Used NLP techniques like **tokenizationte**,**x t classification**, and **keyword matching** to identify and extract key sections from PDF documents using **PyPDF2Faiss**, and **Vector Store.**
- Developed interactive conservation python app using **StreamlitLa**, **ngChain**, and **Google Generative AI** to generate human-like responses from PDFs.

CERTIFICATES

Marketing Analytics(NPTEL) — **May 2025**
CERTIFICATE: https://drive.google.com/file/d/1XnEnQXBw1ZREYadj-BORPHi93LT_TBGq/view?usp=sharing
- Scored 81% (Top 5% of 1544 candidates).
- Covered Marketing metrics, data analysis, regression, segmentation, CLV, A/B testing.

AWS Solutions Architect- Associate Certification Program (Ethnus) — **April 2025**
CERTIFICATE: https://drive.google.com/file/d/1SMmxCSIQ8_WL-D6JtW4PVm_wOT-IUIJj/view?usp=sharing
- 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**
CERTIFICATE: https://drive.google.com/file/d/146rukdZEiSlcDjzsUwwbxNJOaQ9mlj18/view?usp=sharing
- Built a deep learning model using CNNs/ViTs to classify jellyfish species, aiding marine biodiversity monitoring.

EXTRA CURRICULARS

Social Work Intern | Kshitiksha Foundation — **June 2023 - July 2023**
LINK : https://drive.google.com/file/d/1oWZqiFAacepHOFHHaVx-sKNqMLBJ4x_r/view?usp=sharing
- I distributed food to needy children, planted trees on barren land, and fed stray animals.