

EDUCATION	
Vellore Institute of Technology B.Tech in Computer Science; GPA: 8.23	November 2022 - May 2026 Bhopal, India
Delhi Public School Kolar Road Class - XII (CBSE), Grade : 87.8%	March 2021 - May 2022 Bhopal, India
Delhi Public School Kolar Road Class -X (CBSE) ,Grade - 89%	March 2019 - May 2020 Bhopal,India

TECHNICAL SKILLS	
●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	

EXPERIENCE	
Data Science and Analytics Intern Zidio Development	January 2025 - February 2025
<div><div>○ Automated data preprocessing and analysis pipelines in Python, reducing manual processing time by 70%.</div><div>○ Applied 4+ ML algorithms (K-Means, Logistic Regression, Linear Regression, and Random Forest) to test model accuracy and cluster patterns, achieving up to 88% prediction accuracy.</div><div>○ Collaborated with a team of 3 interns to deliver a mini data science solution on time and presented findings to senior developers.</div></div>	

PROJECTS	
YOLOv8 -Real Time Object Detection	May 2025 - Present
<div><div>○ Developed a custom YOLOv8- based vehicle detection system to identify multiple vehicle classes(cars, trucks, buses) with real-time images.</div><div>○ Trained model on a custom annotated dataset using Ultralytics YOLOv8 and visualized detection insights using Pandas.</div><div>○ Built an interactive streamlit web app to visualize detection with bounding boxes, class-wise counts.</div></div>	
Asteroid Classification using XGBoost	September 2024
<div><div>○ Developed an XGBoost-based classification model to predict hazardous asteroids.</div><div>○ Achieved 92% accuracy on NASA's asteroid dataset by optimizing hyperparameters.</div><div>○ Engineered and selected critical features to improve model precision, minimizing false positives in hazardous object classification.</div></div>	
Intelligent Conversational System on PDF Files	March 2024 - April 2024
<div><div>○ 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.</div><div>○ Implemented semantic search by converting PDF content into vector embeddings and enabling context-aware responses through LLM-powered text generation.</div><div>○ Developed interactive conversation python app using Streamlit, LangChain, and Google Generative AI to generate human-like responses from PDFs.</div></div>	

CERTIFICATIONS	
Marketing Analytics (NPTEL)	May 2025
<div><div>○ Scored 81% (Top 5% of 1544 candidates).</div><div>○ Covered Marketing metrics, data analysis, regression, segmentation, CLV, A/B testing.</div></div>	
AWS Solutions Architect- Associate Certification Program (Ethnus)	April 2025
<div><div>○ Gained expertise in designing highly available, cost-efficient, and scalable cloud architectures.</div><div>○ Hands-on knowledge of VPC, EC2, S3, RDS, IAM, Load Balancing, and Auto Scaling.</div></div>	
Artificial Intelligence (SmartInternz)	April 2025
<div><div>○ Built a deep learning model using CNNs/ViTs to classify jellyfish species, aiding marine biodiversity monitoring.</div><div>○ Aimed to assist marine biologists and conservationists in biodiversity research and population monitoring.</div></div>	

EXTRA CURRICULARS	
Social Work Intern Kshitiksha Foundation	June 2023 - July 2023
<div><div>○ Volunteered at Kshitiksha Foundation to distribute food, plant trees, and care for stray animals, promoting sustainability and social welfare.</div><div>○ Participated in digital literacy initiatives, tutoring 10 students on using online learning platforms and software, thereby bridging the digital divide and enriching educational experiences in the most vulnerable community.</div></div>	