

Harshita Duggal

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Career Objective

To secure a challenging role in a growth-oriented organization where I can apply my skills in programming, web development, and AI/ML, while continuously learning and contributing to innovative, impactful projects.

Education

UPES Dehradun, India	July 2023 - June 2026
Bachelors of computer applications – AIML	CGPA: 8.1/10.0
Ryan International School, India	March 2022 - May 2023
CBSE Higher Secondary Certificate	Percentage: 79.8/100.0
Ryan International School, India	March 2020 - June 2021
CBSE Secondary School Certificate	Percentage: 78/100.0

Internship

Social Intern	June 2024 – July 2024
Shape India NGO	Delhi, India
<ul style="list-style-type: none">Contributed to initiatives focused on women’s rights, gender equality, and community outreach.Participated in awareness campaigns and supported documentation/reporting tasks.Developed a deeper understanding of social impact, human rights, and fieldwork ethics.	

Projects

“photomosaic generator”	June 2025 – Present
<ul style="list-style-type: none">Technologies used- python, opencv, numpyDeveloped a Python-based application that converts a single image into a photomosaic composed of thousands of smaller tile images.Used opencv for image processing and NumPy for pixel-level manipulation.Implemented average color matching to dynamically replace segments of the main image with the closest matching tilesCurrently working on transforming the project into a web application to make it interactive and accessible via browser.	
“AI book recommender”	May 2025 – June 2025
<ul style="list-style-type: none">technologies used-python, langchainBuilt a conversational book recommendation system using LangChain, enabling natural language interaction with users.Integrated LLMs to understand user preferences and suggest personalized books.Used vector databases for similarity search across book summaries or genres.	
“Vehicle CO₂ Emissions Prediction Web App”	Jan 2025 – Apr 2025
<ul style="list-style-type: none">Technologies Used – Python, Scikit-learn, Pandas, MatplotlibDeveloped a machine learning-based web application to predict vehicle CO₂ emission categories .Implemented multiple models (Random Forest, Decision Tree, KNN) and achieved a test accuracy of 98.56%.Integrated feature selection, model comparison, and clustering analysis (DBSCAN) for deeper data insights.	

- Built an interactive prediction form allowing users to input vehicle specifications and get real-time emission predictions.

“Traffic Accident Analysis Dashboard “

Nov 2024- Dec 2024

- **Technology used-** Ms-Excel
- Developed a comprehensive dashboard to visualize traffic accident trends using pivot tables, charts, slicers, and conditional formatting.
- Analyzed patterns based on location, time, and severity, helping identify high-risk zones and critical insights.
- Focused on clean design and data storytelling to enhance readability and decision-making support.

Skills

Programming languages: C++, Java, Python, JavaScript

Web Technologies: HTML CSS, React

ML/AI: NLP, genAI, vector databases, langchain ,pytorch

Express.js, Nodejs, Tailwind

Soft Skills: Communication, Leadership and Teamwork

Miscellaneous: PostgreSQL, PGvector,

Data analysis and visualization- PowerBI, Excel, matplotlib, pandas , numpys

mysql, mongodb, Git, GitHub

Technical Certifications

- Data Environment - Exploratory Courses
- Data Management– Exploratory Courses
- React.js-Guvi
- UPES-Node.js course, Guvi