





Shubham Gupta

B.Tech (Honours) CS&E — Data Science |  Portfolio

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Summary — B.Tech (Honours) CS&E graduate skilled in Java, Python, and SQL, with hands-on experience in DSA and machine learning. Eager to build robust & scalable web apps, data pipelines, and ML-powered solutions that drive real impact.




Education

Bachelor of Technology(With Honours)	8.5 CGPA
<i>Computer Science and Engineering(Data Science), PSIT Kanpur</i>	<i>2025</i>
Senior Secondary	91.4%
<i>Mahatma Hansraj Modern School</i>	<i>2021</i>

Experience

Cognizant Technology Solutions	May 2025 – Sept 2025
<i>Programmer Analyst Trainee (Internship)</i>	
<ul style="list-style-type: none">Completed 600+ hours of structured training in Java, SQL, DSA, and Agile, simulating real-world engineering tasks.Led and worked in cross-functional Agile teams across sprints, focusing on feature testing, debugging, and integration.Automated regression test workflows in simulated Agile sprints using Java and SQL, reducing manual effort in practice projects and strengthening QA skills.Designed and automated 25+ test cases, increasing test coverage by 20% and enhancing test reliability.	

Projects

Black Friday Sales Analysis — Data Analysis & Visualization 	July 2025
<ul style="list-style-type: none">Performed EDA on 800000 retail transactions, uncovering 3 major purchasing patterns across demographics and product categories, enabling data-driven retail insights.Applied data cleaning, preprocessing, and feature engineering, reducing missing value impact by 15% and improving data reliability.Conducted statistical analysis using Python (Pandas, NumPy, Seaborn), identifying 5+ key drivers of sales behavior.	
Driver Drowsiness Detection Using YOLO — Machine Learning & Computer Vision 	May 2025
<ul style="list-style-type: none">Led a 4-member team to build a computer vision – based drowsiness detection system addressing real-time safetyImplemented YOLO-based face and eye detection with PyTorch and OpenCV for accurate real-time monitoring.Addressed a critical real-world challenge by contributing to a system designed to reduce road accidents caused by driver fatigue (WHO: 20% of crashes).Conducted testing under varied lighting and angles, achieving 87% accuracy and reducing false positives by 15%.	
Dijkstra’s Algorithm Visualizer — Algorithms & Data Interpretation 	Mar 2024
<ul style="list-style-type: none">Built a UI tool to simulate Dijkstra Algorithm, enabling interactive visualization, deeper understanding and debugging of graph algorithms.Optimized the algorithm using priority queue with time complexity $O(V+E)$ and space complexity $O(V)$Optimized graph representation using adjacency lists, improving performance by 20% compared to naive matrix-based approaches.	

Technical Skills

Programming Languages & Algorithms: Java, Python, SQL, JavaScript, C++ , Data Structures, Algorithms
Courseworks: Object Oriented Programming, DBMS, OS, CN, System Design, SDLC, SOLID, Design Patterns
DS & Machine Learning: Pandas, NumPy, scikit-learn, Matplotlib, Seaborn, EDA, Mathematics
Web Development: React.js, Node.js, Express.js, HTML, CSS, REST APIs
Databases & Tools: MySQL, MongoDB, Git, GitHub, Postman, Excel, Prompt Engineering, Agile Methodologies, Jira

Achievements

Coding Competitions: Secured **Global Rank 2107** in TCS CodeVita 2024; showcasing applied problem-solving abilities at scale.
Algorithmic Programming: Solved **1500+ DSA problems** across platforms; **LeetCode Global Rank under 12000**.
GATE Qualification: Qualified GATE 2024 & 2025 with **AIR 915**; demonstrating strong conceptual skills.
Academic Excellence: Graduated with **B.Tech(with Honours)** in CSE (Data Science) – **8.5 CGPA**; showcasing my consistency.

Certifications

Data Science for Engineers, by IIT Madras | **Get Started With Python**, by Google | **Prompt Engineering**, by Udemy

- Completed various **IIT-Certified** courses to gain deeper understanding of Computer Science topics