

MAYANK GUPTA

Kanpur Nagar, Uttar Pradesh

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Technical Skills

Programming: Python (OOPs), Golang, JavaScript, Rails, SQL, HTML

Frameworks & Libraries: React.js, Node.js, Express, Plotly, REST APIs, Pandas, NumPy

Databases: MongoDB, MySQL

Tools: Git, VS Code, Postman, Streamlit, AWS

Core Areas: Operating Systems, Algorithms, DBMS, Machine Learning

Professional Skills: Cross-functional collaboration, effective communication, structured task planning

Education

Pranveer Singh Institute of Technology, Kanpur

2022–2026

B.Tech – Computer Science and Engineering – 81%

Kanpur, Uttar Pradesh

BBS Smriti Vidyapeeth Academy

2022

Senior Secondary (XII) – 75%

Auraiya, Uttar Pradesh

Gyan Sthali Academy

2020

High School (X) – 80%

Auraiya, Uttar Pradesh

Experience

Password Security Analysis – SDS

Feb 2025

Information Security Analyst – Virtual Internship

- Created a Python tool to evaluate password vulnerabilities using dictionary attack simulations.
- Detected and mitigated **75%** of weakly encrypted passwords through improved hashing and salting.
- Enhanced system resilience against brute-force attacks by **60%**.

Projects

Ride Along The Highway (RATH) | React, Node.js, Express, MongoDB, Socket.io

2025

- Engineered a **real-time ride-booking platform** handling 200+ simulated rides with secure authentication.
- Implemented fare estimation and live tracking, increasing booking efficiency by **35%**.
- Optimized client-server data handling using Socket.io, reducing latency by **25%**.

Virtual Cursor | Python, OpenCV, MediaPipe, Streamlit

Sep 2024

- Built a webcam-based hand-tracking system achieving **92% gesture accuracy**.
- Enabled gesture-based cursor actions (click, drag, scroll) to improve accessibility and usability.
- Improved performance across varied lighting and screen conditions through adaptive calibration.

Stock Prediction and Analysis | ML, Plotly, Streamlit, Pandas, NumPy

Jan 2023

- Developed a web app for analyzing and forecasting stock performance across **1,000+** tickers.
- Integrated interactive charts for trend visualization using Plotly and Pandas.
- Optimized the ETL workflow, reducing data processing time by **40%**.

Certifications

• Goldman Sachs – Software Engineering Simulation (Forage) 

• AWS APAC – Solution Architecture Simulation (Forage) 

• Preparing for Your Associate Cloud Engineer Journey – Coursera 

• DevOps Prerequisite Course – Coursera 

Achievements

- Solved **650+** problems on LeetCode with a peak contest rating of 1650+.
- Achieved a 5 rank on HackerRank after completing **300+** coding challenges.
- Secured **2nd place** in a college debate competition for clear articulation and structured delivery.