

# SUMIT SINGH

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## Education

<b>Graphic Era Hill University, Dehradun</b> <i>B.Tech in Computer Science &amp; Engineering</i>	<b>2022 - 2026</b> 7.3/10 CGPA
<b>St. Mary's Senior Secondary School, Rudrapur</b> <i>XII - CBSE</i>	<b>2021 - 2022</b> 74%
<b>St. Mary's Senior Secondary School, Rudrapur</b> <i>X - CBSE</i>	<b>2019 - 2020</b> 90%

## Work Experience

<b>TATA MOTORS</b> <i>Summer Internship Trainee</i>	<b>July 2025 – August 2025</b> <i>Hybrid</i>
<ul style="list-style-type: none"><li>Developed an <b>Absenteeism Control Framework</b>, a Python desktop application to automate absentee management across departments.</li><li>Implemented department-wise login using <b>PostgreSQL</b>, automated absentee report generation from Excel files, and integrated bulk notifications via <b>SendGrid</b>, <b>Brevo</b> (emails) and SMS APIs.</li><li>Built dashboards with <b>PyQt6</b> and <b>Matplotlib</b>, enabling real-time visualization of absentee trends and departmental insights.</li><li>Stack used: <b>PyQt6</b> for UI, <b>Python</b> for backend, <b>PostgreSQL</b> for storage.</li><li>Got mentorship of senior manager from <b>TATA MOTORS LTD. PANTNAGAR</b>, I learned real world software development and learned about scalability.</li></ul>	

## Projects

<b>AI Agent RAG Application</b> — Microsoft Azure Cognitive Search, Azure OpenAI	<b>May 2025</b>
<ul style="list-style-type: none"><li>Built LLM RAG agent to process 5,000+ PDF pages, indexing 1.2GB+ data with 95% query accuracy.</li><li>Processed 100+ PDFs/min, delivering answers in &lt;1.2s and enabling instant travel data insights.</li><li>Deployed on Azure App Service with autoscaling to 1,000+ concurrent users, maintaining 99.9% uptime.</li><li>Cut research time by 70%, reducing multi-hour tasks to minutes.</li></ul>	
<b>Enterprise AI Search Solution</b> — Microsoft Azure Cognitive Search	<b>April 2025</b>
<ul style="list-style-type: none"><li>Developed cloud-native AI search indexing 10M+ records with &lt;1s response times.</li><li>Enhanced semantic query relevance to 92% using NLP pipelines integrated with Azure Cognitive Search and metadata filters.</li><li>Built serverless Azure Functions to process 50K+ documents daily from databases, PDFs, and APIs, ensuring scalability.</li><li>Reduced enterprise search time from 10+ minutes to &lt;2s, enabling 50% faster strategic decision-making.</li></ul>	

## Technical Skills

**Languages:** Python, Java, C++, C, JavaScript

**Backend:** Flask, Rest API, Fast API, Node.js

**Frontend:** React + Vite, TailwindCSS, HTML, CSS, Bootstrap

**Clouds & Databases:** Azure, Google Cloud, PostgreSQL, MySQL

**Developer Tools:** VS Code, GitHub, Xcode, CodeSandbox, Google Collab, Jupyter Notebook, PyCharm

**Operating System:** Windows, Linux, Ubuntu

## Honours and Awards

<b>GATE</b> 2025	<b>2025</b>
<ul style="list-style-type: none"><li>Qualified GATE 2025 Exam.</li></ul>	
<b>Hackathon 2022 Graphic Era Hill University</b>	<b>Dec 2022</b>
<ul style="list-style-type: none"><li>Won Hackathon 2023 at Graphic Era Hill University (1st year), secured 3rd position and awarded <b>7,000</b>.</li></ul>	
<b>International Maths Olympiad</b>	<b>2020</b>
<ul style="list-style-type: none"><li>Secured Rank 1 in school-level International Maths Olympiad and qualified for the Zonal level.</li></ul>	