

SOHAM GHOSH

2K21/EE/290 | 📞 +91 - 7303200697 | ✉️ sohamghosh3210@gmail.com | [in LinkedIn](#) | [Github](#)

EDUCATION

Delhi Technological University, New Delhi

(Aug 2021 - May 2025)

B.Tech. - Electrical Engineering

CGPA - 9.20

Amity International School, Mayur Vihar, New Delhi

(Apr 2019 - Apr 2021)

Class XII

CBSE Boards - 98.4%

Amity International School, Noida

(Apr 2013 - Apr 2019)

Class X

CBSE Boards - 98.2%

INTERNSHIPS AND EXPERIENCE

The Spark Foundation (Virtual) - Web Development & Designing Intern

(May 2024- Jun 2024)

- Implemented Razorpay Integrated Payment Gateway, enhancing transaction processing efficiency, reducing payment errors by **50%**, and boosting transaction rates by **25%**.
- Deployed Razorpay APIs for Creating orders and paying for it using **UPI, wallet and 5+ more ways** with HTML, CSS(Tailwind), Node.js.

CHEGG India Pvt. Ltd. - Managed Network Expert (Advanced Mathematics)

(Oct 2022 - Sep 2023)

- Solved complex applied mathematics problems for higher secondary school and college-level students in Electrical Engineering, improving student pass rates by **25%** and enhancing understanding of key concepts.
- Completed **90+ problems** and received recommendations from Subject Matter Experts.

PROJECTS

Student Performance Analysis (Python / Pandas / Matplotlib / Seaborn)

[Github](#)

- Conducted in-depth analysis of student performance data from over **1,000 academic records**, uncovering critical correlations that informed strategic decisions and improved overall student engagement by 25% across educational institutions.
- Utilizing **scatter-plots, join-plots, kdeplots and pair-plots** to enhance data-driven insights; insights are now leveraged by **5** educational administrators to support curriculum improvements.

Interactive Dashboard for Plant Company (PowerBi / MS Excel)

[Link](#) | [Github](#)

- Engineered an interactive dashboard as a performance report and led to increased sales productivity by over **30%** with a specific focus on performance analysis and profit maximization.
- Employed various charts and mapping techniques to compare year-to-date and prior-to-date sales data that identified a **39.62% increase in gross-profit** and highlighted key growth areas.

Income Survey Dashboard (MS Excel)

[Github](#)

- Completely interactive and represents a detailed visualization regarding data available in source dataset having **44,00 rows** of data.
- Analysed data to determine the outcome of earning **more than 50k**, which depends on various categories such as Educational Qualification, Race, Occupation, Marital Status, Gender, and Age Groups.
- Discussed capital gain values, Capital gain loss and number of hours per week on the basis of different categories.

Chat Application (HTML / CSS / JavaScript / React / Firebase)

[Link](#) | [Github](#)

- Implemented a real-time chat application having features such as **1-to-1 messaging** with ability to block/unblock user.
- Utilized Firebase to enable real-time communication between **100's of users**, providing an interactive chat experience.
- User-friendly feature: **FirestoreAuth** to create users, **FirestoreStorage** to upload images, **FirestoreDB** to fetch and retrieve real-time data.

TECHNICAL SKILLS

- Programming Languages** : C++(basic), Python(basic), HTML5, CSS3, JavaScript (ReactJS), Firebase.
- Data Analytics Tools** : SQL(basic), PowerBi, Pandas, NumPy, Matplotlib, Seaborn, MS Excel.

ACADEMIC ACHIEVEMENTS

- Currently in the **top 4%** of my department with a noteworthy **CGPA of 9.20**.
- Solved 400+ problems** across multiple coding platforms (Leetcode, CodeChef, CodeStudio).
- Secured AIR within **top 2%** students in **JEE MAINS 2021** among 10+ Lakh candidates.
- Successfully completed **Introduction to Cloud Computing & Industrial Internet of Things 4.0** course on NPTEL.
- Won **2 medals** in **3 years** and scholarship from NSO-SOF Olympiads during 2018-2020.
- Qualified for **NTSE-Stage II (finals)** in 2019.

POSITION OF RESPONSIBILITY

Course Material Manager in Fresources, DTU

(Aug 2022 – Present)

- Coordinated with DTU peers to upload detailed subject content for various branches and batches, improving website engagement rates by **35%** and reducing student inquiry response time by **50%**.
- Generated over **8000 views** and interactions in the EE section alone and a peak viewership of **1776** students during exam seasons.

Student Mentor in the Desh Ke Mentor (DKM) initiative of the Govt. of NCT of Delhi.

(Apr 2022 – Aug 2022)

- Received an **A+ grade** from college for providing mentorship and guidance to a cohort of 4 secondary school students throughout a 3-month duration.
- Offered career advice and academic support to foster professional development.