Sumit Singh (21EE30028)

3rd Year Undergraduate
Department of Electrical Engineering
Indian Institute of Technology Kharagpur

in Sumit Singh
📞 +91-7877791748
✉ sumitgadasiya@kgpian.iitkgp.ac.in

Academic Qualifications

Year	Degree/Certificate	Institute	CGPA/%
2021 - Present	Dual Degree in Electrical Engineering	Indian Institute of Technology Kharagpur	7.95/10
2021	Class XII (CBSE)	Tagore English Academy, Nadbai, Bharatpur	96.6%
2019	Class X (CBSE)	Tagore English Academy, Nadbai, Bharatpur	98.2%

Internships and Projects

Do It Yourself, IIT Kharagpur — Video   *December 2021 - March 2022*
Designed and fabricated a **rocker-bogie, 360-degree vision-enabled rover**, able to walk on **rough terrain** with a team of 5

PosCure: Introduction to Innovation and Entrepreneurship — Presentation   *January 2023 - April 2023*
Designed a product which help the user take precautions for his bad posture developed by sitting on a desk for a long time.
Devised a potential manufacturing cost of our product and also worked on STP of product

PDF Handler — Github-Repository
Made a PDF handler to merge PDFs or merge images into a PDF using PyPDF2

Skills and Expertise

Git and GitHub Sumit Singh ⌗ All about Source Control using Git — Making a git commit, and writing Pull Request proposals — Pushing a commit to a remote repository — **Basic Git Commands:** git add, git status, git diff, git log, git checkout, git merge, git clone — Branching and Merging git commits — Creating a Pull Request on GitHub

Programming Languages, Libraries and Frameworks: Python, C, C++, Javascript, MATLAB — Numpy, Matplotlib, OpenCV, Pandas, SciKit Learn, Seaborn, TensorFlow

Markup Languages and Stylesheet Languages: HTML, CSS, LaTeX

Software Tools: LTSpice, MATLAB — MS Office — Google Docs, Sheets and Slides — TinkerCad, AutoCad — Adobe Photoshop, Adobe Premiere Pro

Coursework Information

Mathematics and Programming Courses: Probability and Statistics, Linear Algebra, Numerical and Complex Analysis, Advanced Calculus, Programming and Data Structures*

Electrical and Electronics Courses: Electrical Technology, Analog Electronic Circuits*, Network Analysis*, Signals and Systems*, Digital Electronic Circuits*, Electrical Machines*, Measurement and Electrical Instruments*, Data Communication

Humanities, Social Science & Others: Environmental Studies, Economics, Introduction to Innovation and Entrepreneurship

MOOCs: Supervised Machine Learning: Regression and Classification (Coursera), Advanced Learning Algorithms (Coursera), Python (Kaggle), Intro to Machine Learning (Kaggle), Data Visualization (Kaggle)

Note: Courses marked with * have a lab component also. Courses marked with ** are currently ongoing.

Awards and Achievements

- Secured **second position** in **Open IIT Product Design 2022** with my team *Eclectic Mancers*
- Secured All India Rank of 3871 in **JEE Advanced 2021** (out of 2,00,000 candidates)
- Secured All India Rank of 13268 in **JEE Mains 2021** (out of 12,00,000 candidates)
- Scored **highest** in CBSE X and XII in home **district, Bharatpur, Rajasthan**

Positions of Responsibility

Secretary, Academic Help Subcommittee   *April 2022 - April 2023*
Students' Welfare Committee, Technology Students' Gymkhana, IIT Kharagpur
Elected by 6000+ students from IIT Kharagpur to chair the Academic Help Subcommittee of the Technology Students' Gymkhana.

- Handled a budget of more than **2.1M INR** for the Committee
- Coordinated and led the Induction Team members to successfully conduct a **5-day long Induction Program** for more than **1900 UG Freshers 2022**
- Helped in organizing and successfully conducting a **Blood Donation Camp** with collection of more than **50 units** of blood
- Coordinated with *Student Welfare Group, IIT Kharagpur*, and helped them successfully conduct **Career Orientation Session, PDS Doubt Sessions** and many other events and workshops
- Guided Design and Content teams for the **Induction Handbook 2022**
- Designed a **Feedback Form** for the academic affairs of students and professors
- Coordinated with *The Art of Living* to successfully conduct a **3-day long** *Life-Skills Workshop: Yes!+*
- Organised a Guest Lecture by *ISB (Indian School of Business)* which saw a participation of more than *70 students*

Extra Curricular Activities

- Cadet at 3 Bengal Technical Air Squadron, Kharagpur   *(National Cadet Corps) December 2021 - March 2023*
- Team member of the award-winning General Championship Hockey Team of Patel Hall of Residence
- Team member of the award-winning General Championship What's The Good Word Team of Patel Hall of Residence