



Subarna Maity

Roll No.:23MT10055

B.Tech - Metallurgical and Materials Engineering

Indian Institute Of Technology, Kharagpur

+91-9064476365

subarna2023@kgpian.iitkgp.ac.in

subarna.pro013@gmail.com

EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech.	Indian Institute of Technology, Kharagpur	7.56 (Current)	2023-Present
Senior Secondary	ISE Board	94.25%	2023
Secondary	ICSE Board	97%	2021

EXPERIENCE

- Under Dr. Soniya Gupta-Rawal** *Cambridge Judge Business School*
Research Intern – Satellite Data Project Jan 2025 – Present
 - Conducted web scraping and data collection on ISRO satellite launches, comparing cost efficiency with global space programs, with a focus on UK region-based data extraction.
 - Analyzed satellite cost data from government reports, ISRO documents, and open-source databases to evaluate ROI and sustainability in space missions.
 - Learned the fundamentals of Large Language Models (LLMs) and prompt engineering as part of a chatbot development initiative focused on satellite data queries.
- Penaite** *Remote*
Marketing Associate Intern Aug 2024 – Oct 2024
 - Led content creation and social media marketing, managing Instagram, YouTube, and blogs to boost brand engagement.
 - Conducted market research and investment analysis, contributing to strategic content and business development. Played a key role in the planning of the expansion of Penaite's Pune office, focusing on a student-led operational model.

PROJECTS

- Language Translator**
Self Project
 - Developed a GUI-based multi-language translator using Python's Tkinter and deep translator to support translation across major global languages.
 - Implemented real-time language translation functionality with source/destination language selection using ttk.Combobox and text input/output via Text widgets.
 - Integrated Google Translator API to enable accurate translations and built an intuitive interface for end users.
- Quiz Website**
Self Project
 - Built a quiz website having timer, graphics and skip option using html,CSS and Javascript.
- Asteroid Hazard Risk Classification**
Competition – NSSC'24
 - Implemented XGBoost, K-Fold Cross Validation, Optuna. Plotted Confusion Matrix, ROC Curve, SHAP Values for feature importance.
- Marketing Budget Optimization using Market Mix Model**
Competition - GC, Data Analytics'24
 - Performed exploratory data analysis (EDA) on annual marketing and sales data to identify patterns, seasonal trends, and channel effectiveness.
 - Applied Market Mix Modeling (MMM) to determine the contribution of each marketing channel to sales and to compute the optimal budget allocation.
 - Forecasted a 20% quarterly increase in revenue by reallocating the marketing spend based on the optimized budget strategy.

SKILLS

- Programming:** Python, C++, Matlab, Javascript, HTML, CSS
- Frameworks and Libraries:** Seaborn, Matplotlib, Scikit-learn, Numpy, Pandas, Bootstrap, Neural Networks and Deep Learning, Excel, SQL, NLP, Power BI

COURSEWORK INFORMATION

- **Mathematics:** Linear Algebra, Basic Calculus, Probability Statistics, Transform Calculus
- **Core Subjects:** Computational Applications in Metallurgical Process, Transport Phenomena in Metallurgical Process, Deformation Behaviour in Metallurgical Process, Materials Processing, Thermodynamics, Introduction to Introduction Material Sciences

POSITIONS OF RESPONSIBILITY

- **Subhead**, Composit, IIT Kharagpur *Nov 2023 - April 2025*
 - Managed sponsorship outreach and negotiations, securing funding from companies and alumni to support event initiatives securing 20,000 for the fest.
 - Co-organized Departmental Fest of the department of metallurgical and materials engineering.. Successfully brought participants from various colleges across India.
- **Associate Member-Core Team**, Spring Fest, IIT Kharagpur *Aug 2023 - July 2024*
 - Coordinated with multiple departments to organize one of India's largest cultural festivals, managing logistics and event execution.
 - Led a team of volunteers, overseeing planning, sponsorship outreach, and artist engagement to ensure seamless festival operations.
 - Handled budgeting and resource allocation, optimizing event planning and execution within constraints.
- **Senior Executive Member**, KodeinKGP Technology Web 3.0 Society *Sep 2023 - April 2025*
 - Organized hackathons and tech events, promoting awareness and engagement in blockchain and Web 3.0 applications.
 - Collaborated with industry professionals and alumni to conduct technical workshops for students.
- **Associate Member- Core Team**, Shaurya, IIT Kharagpur *Aug 2023 - July 2024*
 - Conducted financial analysis workshops and developed case studies on macroeconomic trends and investment strategies.
 - Worked on portfolio optimization models, integrating real-world financial data for strategic decision-making.
- **Subhead**, Finance and Economics Club, IIT Kharagpur *Sep 2024 - April 2025*
 - Conducted financial analysis workshops and developed case studies on macroeconomic trends and investment strategies.
 - Worked on portfolio optimization models, integrating real-world financial data for strategic decision-making.

ACHIEVEMENTS

- **1st Runner-Up**, among 1042 teams, Viz- Quest, IIM Nagpur *2024*
- **Internal Round Qualifier**, Smart India Hackathon (SIH) *2024*
- **2nd Runner-Up**, among 1170 team, Analytica: The Data Analysis Event, NAARM, Hyderabad. *2024*
- **Top 10**, NSSC'24 Data Analytics Challenge, SPATS, IIT KHARAGPUR *2024*

EXTRACURRICULAR ACTIVITY

- **1st Position**, General Championship (GC) Yoga as part of the team *2023*
 - **Best Player Award**, General Champoinship Yoga *2023, 2024*
 - **Captain**, General Champoinship Yoga *2024*
 - **!st Position**, Open IIT Yoga *2023*
-