

BIPUL KUMAR

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[Email](#) | [GitHub](#) | [LinkedIn](#)

23/IT/044

Education			
Name of Course	Duration	Name of Institution	Score
B. Tech, Information Technology	2023-Present	Delhi Technological University, New Delhi	CGPA – 9.47
CBSE (Class XII)	2022	Heeralal Public School, New Delhi	Percentage – 91.2 %
CBSE (Class X)	2020	Vyomayana Samastha Vidyalaya, Odisha	Percentage - 97.2 %

Experience

Defence Research and Development Organisation (DRDO) | Research Intern Jun 2024 - Jul 2024

Onsite - CV Raman Nagar, Bengaluru

- Conducted **15+ MATLAB simulations** to optimize drone flight path.
- Gained hands-on experience in Drone communication systems, analyzed key **5+ Protocols** and components, and explored **Anti-Drone Technologies**, including no-Drone Zones.

Accenture - Data Analytics and Visualization Job Simulation | Data Analyst (Remote) Aug 2024 - Sept 2025

- Advised a social media client by cleaning, modeling, and **analyzing 7 datasets** to inform strategic decisions regarding content trends.
- Developed and delivered a PowerPoint presentation and video to communicate key **data-driven insights** and recommendations to client and internal stakeholders.

Projects

College Research Hub | React, Node.js, Express, MongoDB | [GitHub](#)

- Platform connecting **100+ students and professors** for collaborative research, enabling **personalized dashboards**, project discovery, and faster match-making through rule-based recommendations.

Autonomous Navigation & Visualization for Mars Rover | ROS, Python, React.js, Gazebo, YOLOv8 | [GitHub](#)

- Engineered a **ROS-based autonomous navigation** system, fusing data from **3+ sensors** (LiDAR, IMU, GPS) and integrating a YOLOv8 model that achieved **87% mAP** (mean Average Precision) for real-time object detection, improving overall positioning **accuracy by 15%**.
- Developed a custom **data visualization dashboard** in React.js to monitor **5+ real-time data streams**, leading to a 25% faster cycle for software testing and bug resolution.

IoT-Enabled Real-Time Analytics Dashboard for Farmers | Python, Tableau, SQL, Arduino | [GitHub](#)

- Built a system for real-time soil health monitoring using Python & Arduino to analyse **6+ soil samples**.
- Deployed an **automated Tableau dashboard** to translate complex data into actionable insights, enabling **20+ farmers** to make data-driven agricultural decisions.

Leadership & Activities

Team Manager | Inferno DTU Mars Rover Team Aug 2023 - Present

- Led and managed a cross-disciplinary team of **50 students** in the end-to-end development of Mars Rover prototype.
- Spearheaded project planning and execution, resulting in the team securing the **"Best Project Implementation and Management Assessment Plan"** award for two consecutive years (2024 & 2025) at the International Rover Challenge.

Co-Head | Google Developer Student Club - DTU (GDSC DTU) Sep 2024 - Present

- Co-led a core team to grow a **community of 100+ student developers** by organizing and executing technical workshops, speaker sessions, and coding events.

Technical Skills

- Programming Languages:** C++, C, Python, JavaScript, SQL, HTML & CSS.
- Programming Frameworks:** Node.js, React.js, Express.js, MongoDB
- Data Science & Machine Learning:** Tableau, Pandas, NumPy, Scikit-learn, Matplotlib, Pyspark, Tensorflow, Firebase
- Version Control:** Git, GitHub.

Achievements

- Course Skills:** Data Structures, Algorithm Design and Analysis, Object-oriented programming, Operating systems, DBMS Solved **200+ DSA** questions across **Leetcode, Codechef and GFG**.
- Finalist, J.P. Morgan Code For Good 2025, Mumbai.**
- 4th position in Overall** in International Rover Challenge 2024, Coimbatore. **Winner in Project Implementation and Management Assessment Plan**, IRC 2024 & 2025.
- Obtained the **National Aerolympics 2019 - 1st Rank overall**, organised by Aeronautical Society of India.
- National Cadet Corps | **'A' Certificate** holder.
- Won **20+ prizes** in International maths and Science Olympiad in various levels, state and international conducted by SOF.
- Secured Best all rounder Award in Class 10th. Won several Quizzes at HAL, Sunabeda.
- Played **State Level Table Tennis Championship** - 2019, Odisha