SIVANSH GUPTA

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EDUCATION

B.Sc. Robotics & Intelligent Systems - Gateway Year, Constructor University **2026–Present**

Class 12, Don Bosco School Park Circus, Kolkata, India (ISC) **May 2026**
Percentage/Aggregate: 81.40% (Best 5 Subjects - Computer Science Stream)

ACADEMIC PROJECTS

1. DrowsyGuard – Intelligent Driver Drowsiness Detection & Alert System
Website: drowsyguard-ind.netlify.app | *Quantum Qubit Innovator's ThinkTank 2025 Winner, Empresarios Shark Tank 2024 Winner*

- **Summary:** AI-powered driver safety system that detects eye blinks and signs of drowsiness using computer vision. It alerts the driver in real-time to prevent accidents caused by fatigue.
- **Results:** Achieved ~87% accuracy in detecting prolonged eye closure & yawning; system can trigger escalating alerts, vehicle shutdown, and emergency protocols.
- **Applications:** Enhances road safety for trucking, public transport, and personal vehicles; potential to reduce insurance premiums.
- **Tools:** Python, OpenCV, Haar Cascade Classifiers, ESP32-CAM, OLED display, buzzer, wireless comms.

2. NeuroTremor - Assistive Technology for Parkinson's Tremor Management
Website: neurotremor.netlify.app | *Viksit Bharat Buildathon – National Innovation Challenge (Results pending, June 2026)* | *Provisional Patent Filed to Indian Patent Office (Patent Application No. 202631031994)*

- **Summary:** Developed a wearable glove that uses a **Raspberry Pi** to learn a user's hand tremor patterns and respond in real time. The system uniquely targets tremors **from the palm itself**, rather than external supports or the forearm.
- **Results:** Built and tested functional glove prototypes with IMU sensors and precisely mounted vibration motors. Adaptive counter-vibration reduced tremor amplitude, achieving **~40% improvement in hand stability** during controlled task-based testing.
- **Applications:** Designed as an assistive technology to support independence in daily tasks for individuals with Parkinson's disease. Applicable to rehabilitation, occupational therapy, and future wearable health devices.
- **Tools:** Raspberry Pi 4, IMU sensors, vibration motors, embedded systems, control algorithms, rapid prototyping, and user-centered design.

3. Autonomous Extraterrestrial Rover Prototype – AI-Enabled Exploration Robot
DBPC Science Exhibition Runner-up 2024

- **Summary:** Built a rover with AI vision, robotic arm, and autonomous/manual navigation to simulate planetary exploration.
- **Results:** Demonstrated smooth mobility, precision data gathering, and reliable AI recognition across varied terrains.

- **Applications:** Simulation of Moon/Mars exploration; useful for inaccessible or hazardous terrestrial research sites.
- **Tools:** Raspberry Pi 4, ESP32/ESP32-CAM, robotic arm mechanisms, wireless data transmission, AI visual analysis, long-range antenna.

4. VoicePlan AI – Intelligent Voice-Driven Scheduling Platform
Website: voiceplanai.netlify.app

- **Summary:** Born out of my struggle with poor planning after a tough academic year, VoicePlan AI grew from a personal tool into a **full-fledged productivity app with 100+ active users**, integrating Google Calendar and app APIs. It converts voice input into structured schedules, learns habits, and delivers adaptive AI recommendations.
- **Results:** Achieved ~90% speech recognition, ~85% precision in recommendations, and ~20% productivity gains in testing.
- **Applications:** End-to-end time management for students and professionals, centralizing to-dos, deadlines, Pomodoro sessions, and reminders into one system.

5. Research Paper: Cultural and Other Influences on Advanced Technology and Startup Ecosystems: India's Resourceful sInnovation vs. China's State-Driven Strategy

Comparative study analyzing how cultural factors, government policies, and market dynamics shape innovation in India and China. This research paper was **acknowledged and appreciated by IIM Calcutta Innovation Park.**

- **Summary:** Explored India's "Jugaad" innovation vs. China's state-led, capital-intensive strategy, with insights from U.S. startup practices.
- **Methodology:** Used secondary data (Global Innovation Index 2024, VC/financial reports, government initiatives, and case studies).
- **Results:** India shows resilience and frugal engineering strengths (e.g., Mangalyaan mission), but faces bureaucratic friction and IP enforcement gaps. China dominates in patents and advanced tech sectors but risks over-centralization and reduced market-driven innovation.
- **Applications:** Proposed policy recommendations for India—streamlined bureaucracy, stronger IP enforcement, startup tax-loss incentives, and public–private innovation hubs to accelerate deep-tech growth.

TECHNICAL EXPERIENCE/INTERNSHIP

All Stack Developer, Built website of Optimus Resolution & Restructuring Advisors LLP, Kolkata Aug 2025 – Sep 2025

- Built company website (frontend, backend, hosting) and advised on digital marketing.

Lead Developer, Official Website of Quantum Quit 2025, Event of DBPC
[quantumqubit.donboscoparkcircus.org] Jun 2025 – Jul 2025

- Managed event timelines, deliverables, and ensured on-time completion of all website phases.
- Built a responsive and mobile-friendly website, ensuring accessibility across all devices.
- Led the technical decision-making process for platform selection and development frameworks

Intern, Optimus Resolution & Restructuring Advisors LLP, Kolkata Apr 2025 – Jul 2026

- Developed and implemented a comprehensive digital marketing strategy leveraging platforms such as LinkedIn, Instagram, and Facebook to enhance brand visibility, engagement, and growth.

Lead Developer, Website of Don Bosco School, Kolkata
[www.donboscoparkcircus.org] Dec 2024 – Jun 2025

- Managed project timelines, deliverables, and ensured on-time completion of all website pages.
- Built a responsive and mobile-friendly website, ensuring accessibility across all devices.

Member of the Tech Team, Don Bosco School, Kolkata Apr 2024 – May 2026

- Represented the school in multiple interschool competitions like Hackathons, Tech Talk, Debates, and so forth.

Intern, Dot Glasses (Data Science & Analytics) Jan 2025 – Feb 2025

- Visualization of sales data across 3 media platforms and its analysis using Python.
- Presented insights and findings to company representatives.

Intern, HLP Advisors Jun 2024 - Nov 2024

- Designed and developed an application integrating OCR and speech recognition technologies to generate meeting minutes, automatically saving them as editable Word documents and securely storing them on an offline server for enhanced accessibility and data protection.

AWARDS/HONORS

- 1st Place – Quantum Qubit Innovator's ThinkTank 2025, Don Bosco School, Kolkata Aug 2025
- 1st Place – Bosco Corporatus: Quintessence 2025, Don Bosco Liluah, Kolkata Jul 2025
- 2nd Place – Science Exhibition 2024, Don Bosco School, Kolkata Nov 2024
- 1st Place – Empresarios Shark Tank 2024, Don Bosco School, Kolkata Feb 2024
- 2nd Place – Science Exhibition 2023, Don Bosco School, Kolkata Nov 2023
- 1st Place – Science Exhibition 2022, Don Bosco School, Kolkata Nov 2022

ADDITIONAL COURSES/CERTIFICATIONS/TRAINING/WORKSHOPS

- WallStreetMojo – Corporate Finance Fundamentals – Dheeraj Vaidya, Udemy May 2025
- Negotiation 101 – Kyle Nielson s May 2025
- 2-week Gen AI & Prompt Training (Mechanica IIT Madras, Eduxlabs) Jan 2025
- Digital Marketing Essentials Masterclass – IIDE The Digital School Dec 2024
- Attended winter session training for football conducted by the SAI Dec 2024
- Data Science & Machine Learning (Theory + Projects) – AI Science, Udemy Nov 2024
- Unity C# Mobile Game Development – GameDev.tv, Rick Davidson Sep 2024
- Blender Character Creator for Video Games – GameDev.tv, Rick Davidson Jul 2024
- Learn Ethical Hacking from Scratch – Zaid Sabih, Z Security, Udemy Jun 2023
- Played Table Tennis at Community Club Level May 2023

SOCIAL ENTREPRENEURSHIP

ElderConnect – Social Entrepreneurship Initiative (Mar 2025 – Present)
Website: elderconnect-india.netlify.app

- **Summary:** Founded a digital platform connecting teenagers and senior citizens via scheduled calls, audio storytelling, and a pen-pal system to combat elder loneliness.
- **Results:** Built a user-friendly website supporting bi-weekly sessions; currently engaging **45+ active members** across two states.
- **Applications:** Promotes intergenerational bonds, mental well-being, and inclusivity through accessible digital interaction.

CO-CURRICULAR AND EXTRACURRICULAR ACTIVITIES

- Founder and Vice President of a S.T.E.M. Club, "The Circuit Collective" for in the local community to create a platform for sharing knowledge on robotics and innovative technologies. — Oct 2024 – Present
- Actively involved in Football and Table Tennis (District Level) — Mar 2019 – Present
- Competed in regional high school cycling events, earning top 10 finishes in 3 road races among 30 - 50 participants. — Mar 2025 – Apr 2025
- Game Developer with multiple published online games on Itch.io and Game Jam wins. — Jul 2024 – Jan 2025
- Avid keyboard player and represented the school band in two live inter-school events — Aug 2023 – Nov 2023

COMMUNITY SERVICE/VOLUNTEERING

- Contributed to environmental research "***Study to preserve the environmental & ecological balance of flora & fauna"*** along with N.E.W.S – Nature Environment & Wildlife Society — Aug 2025 – Sep 2025
- Organized a blood donation camp in association with the Indian Red Cross Society. — Mar 2025
- Helped in Adult Literacy Workshop organized by Don Bosco School, Park Circus — Nov 2024
- Helped raise funds for UNICEF through Milaap — Jun 2024

LANGUAGES KNOWN

- English (proficient), Hindi (native), Bengali (basic) and German (learning)