

# Deepika Gupta

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## PROFILE

I am a driven and collaborative individual contributing innovative ideas in dynamic environments with a strong passion for the semiconductor industry.

## EDUCATION

<b>Bachelor of Technology in Electronics and Communication Engineering</b> , Vellore Institute of Technology, Bhopal Current CGPA - <b>8.53/10</b>	Sep 2022 – Apr 2026   Bhopal, M. P.
<b>Higher Secondary School</b> , Kendriya Vidyalaya N. E. R. CGPA - <b>89.6/100</b>	Jun 2020 – Jun 2022   Bareilly, U. P.

## PROJECTS

<b>Pre-processing of EEG signals using DSP Techniques</b> • This project focused on using pre-processing steps in MATLAB to filter the raw EEG data and to extract meaningful information.	Jan 2024 – May 2024
<b>Automatic Wheelchair</b> • This project focuses on developing a prototype of an automatic wheelchair with sensor-based obstacle detection, hands-free control, and gesture/voice recognition.	Aug 2023 – Nov 2023
<b>Self Brain Robot</b> • Build a Robot with functionalities including line following, obstacle detection, edge avoidance, Bluetooth control, voice control, and gesture control. • Utilized MIT App Inventor to create a custom Android app for controlling the robot.	Mar 2023

## CERTIFICATIONS

<b>India Semiconductor Workforce Development Program (ISWDP)</b>	Mar 2025 – present   IISC
<b>MATLAB Onramp &amp; Simulink Onramp</b>	Oct 2022   Mathworks
<b>Overview of Space Science and Technology</b>	Jul 2022   IIRS, ISRO
<b>Usefulness of Remote Sensing &amp; GIS for Environmental Studies</b>	Aug 2021   IIRS, ISRO

## EXTRA CURRICULAR

<b>International Innovation Challenge, IIC-2024</b> • Planned and developed a user-centric road safety mobile application with real-time alerts for accident-prone areas, hazardous zones, and bad road conditions.	Nov 2024   Jaipur, India
<b>InnovateYou - Techathon 2024</b> , Innovation Foundation • Planned and designed a Smart Dustbin with Reward System to enhance waste management practices with sensor-based technology.	Jan 2024 – Feb 2024   Pune, India
<b>ISRO Robotics Challenge - URSC 2024</b> • This challenge was about designing a space robot. Worked on the planning phase and expanded the rover's emergency response system.	Nov 2023 – Jan 2024   VIT Bhopal
<b>Startup Wrek</b> , Business Hackathon • Participated in a start-up event, developing a business model through market research, competition analysis, and revenue planning, securing 4th place among 50 teams.	Jan 2023 – Feb 2023   VIT Bhopal

## ACHIEVEMENTS

- Served as the **Program Representative of SEEE** (School of Electrical & Electronics Engineering) department of VIT Bhopal University (AY 2023-24)
- Served as the **Assistant Technical Secretary, Student Council** of VIT Bhopal University (AY 2023-24)
- **ISWDP - Samsung Fellowship** - 2025 - Selected out of 1200 applications

## SKILLS

- **Technical Skills & Tools:** MATLAB, Machine Learning, Arduino IDE, Python, SQL, Firebase Database, Figma
- **Analytical & Soft Skills:** Research, Problem-Solving, Idea formation, Innovation, Analysis, Teamwork, Leadership, Communication

## WORKSHOPS

<b>Innovations in Intelligent Systems</b> , Naional Symposium	Feb 2024   VIT Bhopal
<b>Robotics Workshop</b> , Technex'23	Mar 2023   IIT-BHU

## VOLUNTEER EXPERIENCE

<b>Anchor</b> , National Symposium (ANRF)	Feb 2025   VIT Bhopal
<b>Core Member of PR &amp; Marketing Team</b>	Mar 2024 – Feb 2025   Stats-O-Locked Club
<b>Core Member of Technical Team</b>	Aug 2023 – May 2024   VITronix Club