

GOWRISH CHHABRA

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EDUCATION

M.Tech. Cybersecurity, CSE	2025 - 2027	Delhi Technological University, formerly DCE - Delhi	1 st year
B.Tech. Computer Science (AI/ML)	2021-2025	Maharaja Surajmal Institute of Technology, GGSIPU - Delhi	9.62 CGPA
CBSE (Class XII)	2021	Red Roses Public School, Saket - Delhi	94.6%
CBSE (Class X)	2019	Red Roses Public School, Saket - Delhi	80.2%

INDUSTRIAL EXPERIENCE

Project Intern – Remote | Infosys Limited

(June 2025 – October 2025)

- Applied ML-based forecasting models (Linear Regression, Decision Trees, Random Forest) with **80%+ accuracy** for **StockTrendAI: Stock Market Forecasting Model**.
- Implemented feature engineering, trend analysis, and evaluation metrics to **improve prediction accuracy** and **automated data collection**, preprocessing, and visualization using Python and financial APIs.

Machine Learning Intern | Defence Scientific Information & Documentation Centre

(extd. January 2025 – May 2025)

Solid State Physics Laboratory | Research and Development Organisation (DRDO), MOD

(July 2024 – August 2024)

- Engineered a modified Dijkstra's algorithm for multi-UAV path planning, achieving up to **95% waypoint coverage** with a **40% reduction** in redundant drone usage under battery and charging constraints.
- Implemented a Python-based simulation with GUI and geo-mapping tools (gmplot, SHP), enabling 3+ **test scenarios** (low, zero, high battery loss) and **improving route visualization** and analysis efficiency by 60%.
- Engineered a **UAV-based surveillance system** for real-time **detection and tracking of moving objects**. Automating border security and reducing manual intervention by 30% for quicker threat response.
- Integrated **YOLO** for accurate **object detection** in multiple scenarios, **validated through simulations** to ensure **97% reliability** in identifying threats.

Intentor App | Indian Institute of Technology Bombay (IITB) | [Link](#)

(January 2025)

- Collaborated with the **SynerG Lab, Dept. of CSE, IIT Bombay**, to evaluate and provide feedback on the "**Intentor**" app aimed at **reducing social media usage**. Contributed to advancements in **Human-Computer Interaction** research.
- Study to support the development of tools for **managing social media usage**, ensuring data-driven insights for enhanced usability.

Information Technology Department | Airports Authority of India (AAI), MoCA

(September 2024 – November 2024)

- Created a **real-time system monitoring tool** to track CPU, memory, and disk usage with **95% accuracy** using **Python's psutil library** for efficient **data collection** for smooth background processing.
- Designed a **responsive user interface** using HTML, CSS, and JS ensuring seamless **cross-platform compatibility**.

ACADEMIC PROJECTS

Insight into Affective Dysregulation via ML | [Github Link](#)

- Invented a **machine learning-based stress prediction model** utilizing **10+ health and lifestyle datasets**. Analyzed **12 key factors** to provide **personalized stress assessments** delivering a **scalable solution** to **enhance mental health**.
- Designed an **interactive user interface** to input **health metrics** and achieved over **90% model reliability** and **accuracy** integrating **regression algorithms** with **three metrics** like R², RMSE, and MAPE.

Automatic Time-Table Generator | [Github Link](#)

- Generated a **Python-driven timetable** generation interface for **college administration**, facilitating input of subjects, faculty, sessions, and classes.
- Improved scheduling accuracy** by 15% by ensuring **zero scheduling conflicts** and saved 25+ hours weekly in **administrative tasks**.

Route Finding Visualization | Coding Blocks | [Github Link](#)

- Created **Python-based visualizations** for **graph traversal algorithms**, including **BFS, DFS, Dijkstra, and A***.
- Built a **Tkinter-based GUI** to **visualize graph traversal**, enabling node selection, random maze generation, adjustable grid up to 50 x 50 dimension, and obstacle placement for **improved interactivity**.

RESEARCH PUBLICATION

- Facial Expression Recognition Classification: Presented research idea** in the **EAI International Conference on Intelligent Systems and Machine Learning** in 2023 and **published finding** in **4th International Conference on ICT for Digital, Smart and Sustainable Development (ICIDSSD)** held on Jamia Hamdard, New Delhi (2024) as a **Corresponding Author**. [Link](#)
- ECG - Analysis of Heart Disease: Published ECG signal-based 2-D grayscale image analysis using CNN models** in the **College Journal of Research** (Vol. 10, Pg. 35–47). [Link](#)

PATENT GRANTED

- Mr. Aabhaas Sikka, Dr. Sumanta Bhattacharya, Mr. Gaurav Pandey, Mr. Saurabh Pandey, Mr. Ekagra Sikka, **Mr. Gowrish Chhabra** & Dr. Gunjesh Kumar, published a patent titled **Muti-node Air Quality Monitoring Device** (patent filed on 24/10/2024, published on 17/01/2025, and Journal No. 03/2025, **Application No. 435414-001**. [Link](#)

ACHIEVEMENTS

- Qualified UGC-NET** (Computer Science & Applications), June 2025, with **99.35 percentile (AIR 240)**.
- Secured 5th rank nationally** and awarded **Highest Scorer** title in the **National Competence Evaluation Test (NCET) 2025**.
- Qualified GATE examination twice**, showcasing technical proficiency with **96.14** and **94.72 percentile** respectively.
- Secured 2nd rank in CSE Branch, Topper Award** in overall academics as well as coming under **top 0.1% in university**.
- Selected among the **top 80 students across India** to participate in the **Research and Innovation Symposium in Computing (RISC 2025)** at **IIT Bombay**, under the supervision of **Prof. Dr. Varsha Apte**, Head of CSE Department, IITB.
- Honored with a **Letter of Appreciation** for boosting departmental **efficiency by 20%** process **optimization** and **dedicated efforts** in the **Department of CSE, MSIT**.
- Invited as an **e-Yantra Head** to represent **e-Yantra, MSIT**, at the **e-Yantra Symposium 2023** held at **IIT Bombay**, also received **Certificate of Appreciation** from e-Yantra for **achieving a Top 25 national ranking** in the **eLSI**.
- Achieved 13th national ranking** in **ISRO Robotics Challenge – URSC (IRoC-U), 2024** in **Prelims Stage**.

POSITION OF RESPONSIBILITY

Head Placement Coordinator & Class Representative | MSIT

(August 2024 – July 2025)

- Recognized by institute leadership (Prof. H.S. Rawat, Director) through an official **Letter of Recommendation** for **exemplary leadership in organizing placement drives and guiding students**.
- Successfully coordinated with top recruiters, streamlined logistics, and created career opportunities for peers.
- Class Representative – CSE Department**, facilitated coordination between faculty and students.

President | e-Yantra, MSIT

(February 2023 – July 2025)

- Directed and facilitated **127+ students** developing projects, **leveraged by 5+ teachers**, and established overall objectives. Enhanced IoT and robotics expertise by mentoring students on hands-on projects.
- Awarded **Letter of Participation** for **research sessions** in eYRC (June–July 2025) and achieved an average score of **95%+ in quizzes** conducted during the program.
- Secured **1st Place** with my team in **Robo Maze** and **Robo War** Competitions, Avensis, MSIT, 2024.

Event Head | Delhi Police, Sports Meet, Avenis & International Conference, MSIT

(February 2024 – March 2024)

- Orchestrated and supervised **Sports Meet** and **Technical Fest** over **5+ events** for **organizing in 2nd ICAI' 2024**.

Campus Ambassador | IIT Delhi | IIT Kanpur

(September 2023 – March 2024)

- Collaborated on **Publicity in Rendezvous, eDC & Techkriti**, attracting students from **1200+ colleges** and **1,60,000+ attendees**.

EXTRA-CURRICULAR ACHIEVEMENTS

- Organized **ISPA's Space Conclave** events in **collaboration with ISRO and DRDO** (2023–2024), ensuring seamless execution for **two consecutive years** working **5+ high – profile events attended by over 1000+ delegates**.
- Awarded **Certificate of Excellence** in Data Science & ML coursework and secured a Top 10 position in **Summer Analytics 2025** organized by IIT Guwahati, for a project on real-time data streaming.
- Completed a **4-week online internship in Cybersecurity with AI** under **Cisco Cybersecurity Essentials**, guided by **Ms. Charu Kapoor** (Director, NIIT Foundation) & **Ms. Sapna Moudgil** (CEO, NIIT Foundation).
- Completed **Government-certified online training in Cybersecurity** under **MeitY** (ISEA Project Phase II), covering cyber hygiene practices, common threats under cybersecurity; conducted by **NIELIT** under **Shri Ch. A. S. Murty** (Coordinator, ISEA PMU).
- Certificate of Commendation** from **IIT Bombay**, for **Summer Training in Python Programming**.
- Part of the **organizing committee** of the **Special Olympics Asia Pacific Bocce & Bowling Competition 2024**, hosting **200+ athletes** from **10+ countries** across the **Asia – Pacific region**.
- Collaborated with **5+ NGOs** to lead initiatives in **social impact**, including plantation drives, blood donation camps, crowdfunding campaigns, and community design projects.

OTHER INFORMATION

- Technical Skills:** Cybersecurity, Cyber forensics, C/C++, Python & its libraries, SQL, sqlite3, Web design, Testing, Prompt Engineer, Mechatronics Engineer, Data Analytics, Ethical Hacking.
- Hobbies:** Volunteering, Music, Learning, Event Management, Community involvement and social work.