

Ansh Gupta

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EDUCATION

- **University of Delhi** New Delhi, India
B.Tech. in Electronics and Communication Engineering (Minor in AI/ML); CGPA: 8.00 *Aug. 2023 – Present*
- **Maxfort School** New Delhi, India
Grade from Class 12: 82.4%, Class 10: 90.2% *Aug. 2008 – May 2022*

EXPERIENCE

- **Research Intern – IIIT Delhi** New Delhi, India
Research Internship *May 2025 – Present*
 - **Machine Learning Exploration:** Studied and explored various machine learning algorithms including supervised, unsupervised, and ensemble methods.
 - **Model Development:** Designed and implemented multiple ML models during the internship, focusing on performance evaluation and improvement.
- **GirlScript Summer of Code** Remote
Contributor *Oct. 2024 – Nov. 2024*
 - **Open Source Contribution:** Contributed to various open-source projects, enhancing features and fixing bugs.
 - **Team Collaboration:** Collaborated with a global team to improve project functionality and documentation.

PROJECTS

- **Solar Powered Water Pump (April-May 2018):** Developed a sustainable water pump system powered by solar energy to improve irrigation efficiency.
- **Arogya Vani App (June 2025):** Built a multilingual healthcare information app that provides verified health resources, AI-powered symptom checker, and emergency contact features in regional Indian languages.
- **Fit AI – AI-based Fitness Assistant (June 2025):** Developed an AI-powered fitness assistant using pose detection and classification to provide real-time exercise feedback and posture correction. Enabled support for multiple exercises with user-friendly feedback via a web interface.
- **Research Paper Replication – Air Quality Prediction (January 2025 - April 2025):** Replicated a machine learning study to predict Air Quality Index (AQI) across various Indian cities using Python. Implemented data preprocessing, exploratory data analysis, and applied regression models. Evaluated model performance and visualized key trends in pollution levels.
- **Grievance Management System (March 2025 - April 2025):** Developed a Grievance Management System for colleges where students can lodge grievances using a voice-to-text feature available in four languages, along with real-time tracking of their registered complaints.

Skills and Competencies

- **Languages:** Python, Java, C, C++, HTML, CSS, JavaScript, React, Matlab
- **Embedded Systems:** Arduino, Raspberry Pi
- **Machine Learning & AI:** Scikit-learn, Statsmodels, Machine Learning, Artificial Intelligence, Generative AI
- **Programming Paradigms:** Object-oriented programming
- **Data Technologies:** Knowledge Graphs, MySQL, SQLite, MongoDB, PostgreSQL
- **Tools & Platforms:** AWS, VS Code, GitHub, Git, Android Studio, IntelliJ, Flutter

CERTIFICATIONS

- **Postman API Fundamentals Student Expert:** Issued by Postman
- **AWS Cloud Clubs Infrastructure Camper:** AWS Cloud Clubs Infrastructure Camper badge
- **JavaScript Certificate from Codedex Club:** JavaScript certificate from Codedex Club
- **Programming in Java:** Programming in Java certificate from NPTEL IIT Kharagpur

ACHIEVEMENTS

- **Ranked among the Top 10 Teams:** Achieved Top 10 position in the Blueprint competition organized by eDC, IIT Delhi (Regional Level).
- **2nd Place – Startup Spotlight:** Organized by MUIL, Masters' Union
- **2nd Place – Code or Die Hackathon:** Delhi Technological University (formerly DCE)
- **1st Place – Code Phantom (DSA):** Organized by Shaheed Sukhdev College of Commerce
- **3rd Place – Sankalp 101 Hackathon:** Conducted by TrishulX, India's 1st 2D Virtual Hackathon