ANSHUL RAJPOOT

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EDUCATION

Maulana Azad National Institute of Technology (MANIT), Bhopal **2023–Present**
Bachelor of Technology (B.Tech) in Electronics and Communication Engineering **CGPA: 8.49/10.00**

RMSG Public School, Jhansi **2019–2023**
Higher Secondary (Class XII), CBSE Board **Percentage: 94.6%**
Secondary (Class X), CBSE Board **Percentage: 96.8%**

TECHNICAL SKILLS

- **Languages:** Python, C, C++ (DSA), HTML, CSS
- **Embedded Systems:** Arduino Uno, Sensor Integration, PWM, Motor Drivers
- **Prototyping:** Breadboard Circuit Design, Soldering, Relay Modules
- **Tools & Platforms:** GitHub, VS Code, TinkerCAD, Proteus
- **Core Concepts:** Signal Processing, Linear Circuits, Statistics, Probability
- **Soft Skills:** Critical Thinking, Technical Leadership, Problem Solving, Time Management

LEADERSHIP & CAMPUS ENGAGEMENT

Technical Executive, Robotics Club | MANIT Bhopal **May 2024–Present**

- Orchestrated embedded systems workshop for 200+ peers, focusing on hands-on circuit design.
- Spearheaded "Makathon" and contributed to rubric design, event logistics, and judging coordination.
- Oversaw technical infrastructure during "Robofiesta'25" with participation from 50+ collegiate teams.

Event Volunteer, ISTE Rookie Induction **2024**

- Managed 150+ attendees for "Anubhuti" talk show, ensuring smooth flow of crowd and logistics.

TECHNICAL PROJECTS

Spotify UI Clone - *HTML | CSS | Web Design* **Mar 2025**
GitHub

- Developed a responsive UI clone of Spotify using grid layouts and hover-based animations.
- Ensured cross-device compatibility with fully responsive design for mobile, tablet, and desktop screens.

MFCC-Based Speaker Recognition System - *Python | Signal Processing | Streamlit* **Apr 2025**
GitHub

- Built an end-to-end MFCC pipeline using NumPy, SciPy, and Librosa, including framing, FFT, Mel filtering, and DCT.
- Designed a Streamlit app to visualize audio signals, spectrograms, Mel filters, and MFCC heatmaps interactively.
- Explored the impact of frame size, overlap, and filter count on MFCC quality and time-frequency resolution.

Line Following Robot - *Arduino | Embedded C | IR Sensors | Control Algorithm* **Oct 2024**

- Engineered a high-precision line follower using TCRT5000 IR sensors and L298 motor drivers.
- Achieved good amount of accuracy on complex track layouts via weighted average-based correction logic.

ACHIEVEMENTS

- Secured **1st position** in a competition exam conducted by BIS (Bureau of Indian Standards) among all ECE students.
- Solved 250+ Data Structures and Algorithms problems across LeetCode and GeeksforGeeks.
- Achieved a **98.1 percentile** in JEE Mains (first attempt); admitted to MANIT Bhopal.