# Gunjan Kumar

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github.com/gk26prgb-ai

## OBJECTIVE

Aspiring AI/ML Engineer and Research Analyst with strong foundation in Electrical Engineering (Gold Medalist, IITRAM Batch 2025, and hands-on experience in deep learning, signal processing, robotics, and automation. Seeking challenging opportunities to leverage AI to solve real-world problems in power systems, healthcare, and education technology.

## EDUCATION

**B.Tech in Electrical Engineering**, IITRAM, Ahmedabad                    Dec 2021 – May 2025
CPI: 8.97 — Gold Medalist

**Class 12**, D.M.P Holy Mission, Rosera                                                      2020
Percentage: 77.2%

**Class 10**, M.G.S.S, Darbhanga                                                                 2018
Percentage: 88.8%

## SKILLS

| | |
|---|---|
| **Programming** | Python, MATLAB, PSpice |
| **Software** | AutoCAD, MS Excel, Proteus, Simulink |
| **AI/ML Tools** | CNN, LSTM, Vision Transformers, NLP, Transfer Learning |
| **Other** | Content Writing, Documentation, GUI Development, Troubleshooting |

## EXPERIENCE

**Research Intern – AI/ML, Power System Fault Detection**            Jan – May 2025
IITRAM, Ahmedabad
- Developed deep learning-based real-time fault classification system for 220kV transmission lines using 1D CNN.
- Designed MATLAB/Simulink GUI for monitoring, detection, and localization of faults.
- Preprocessed large-scale simulation data and optimized model performance for real-time deployment.

**AI/ML Project Developer – Educational Content Generation**          May – Aug 2025
IITRAM, Ahmedabad
- Developed NLP-based AI system to generate mathematics and physics content for Grades 9–12.
- Implemented knowledge-based generation and transformer models for problem creation and solutions.
- Automated content delivery pipeline for improved efficiency and quality.

## PROJECTS

**Insomnia Detection from ECG using Deep Learning**                   Jan – May 2024
Guide: Dr. Manish Sharma
- Processed ECG signals into scalograms using Continuous Wavelet Transform.
- Trained Vision Transformer model for insomnia detection.

**Home Automation Using Arduino and Bluetooth**                       Aug – Dec 2023
- Designed wireless appliance control system via Bluetooth-enabled mobile app.

**Human Following Robot**                                            Jul – Dec 2024
- Developed robot using computer vision and Lidar to autonomously follow human movement in dynamic environments.

## ACHIEVEMENTS

- Gold Medalist in Electrical Engineering, IITRAM Batch 2025.
- Dean's Certificate for Academic Excellence.

## EXTRA-CURRICULAR

- Technical blogging and writing educational content.
- Active in collaborative learning and community tech initiatives.