

# Gunjan Kumar

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## Professional Summary

Electrical Engineer with strong expertise in circuit analysis, power systems, and MATLAB/Simulink, combined with hands-on experience in AI/ML-based fault classification and technical validation. Experienced in reviewing schematics, validating AI-generated engineering outputs, and contributing domain knowledge to improve model accuracy. Seeking freelance opportunities in AI-first engineering workflows.

## Core Competencies

- Circuit Diagrams, Schematics, Signal Flow Analysis
- Power Systems, Fault Diagnosis, Protection
- MATLAB, Simulink, SPICE
- AI Model Validation & Technical Annotation
- Electrical Calculations & Documentation Review

## Education

### B.Tech in Electrical Engineering

Dec 2021 – May 2025

Institute of Infrastructure, Technology, Research and Management (IITRAM), Ahmedabad  
CPI: 8.97 — Gold Medalist, Electrical Engineering (2025)

## Relevant Experience

### AI & Electrical Engineering Research Intern

Jan 2025 – May 2025

IITRAM, Ahmedabad

- Designed and simulated power system fault scenarios using MATLAB/Simulink.
- Validated voltage and current waveforms against theoretical power system behavior.
- Reviewed and corrected AI-generated fault classification outputs for accuracy.
- Contributed labeled datasets for training deep learning models in electrical domains.

### Freelance Electrical & AI Domain Contributor

2024 – Present

- Reviewed electrical circuit diagrams, schematics, and signal flow representations.
- Verified AI-generated solutions for electrical calculations and system logic.
- Provided structured feedback to improve AI model performance in engineering tasks.

## Key Projects

### Real-Time Fault Classification in 220kV Power Transmission Line

- Built an end-to-end AI system for multi-class fault detection using CNN, LSTM, and MLP models.
- Generated and synchronized large-scale voltage/current datasets (Va, Vb, Vc, Ia, Ib, Ic).
- Validated AI predictions using power system theory and fault characteristics.

### Electrical System Simulation & Analysis

- Performed load flow, short-circuit, and transient analysis in MATLAB.
- Analyzed analog and digital circuits using SPICE-based tools.

## Technical Skills

**Simulation Tools:** MATLAB, Simulink, SPICE

**Programming:** Python, MATLAB

**AI/ML:** TensorFlow, Keras, CNN, LSTM

**Documentation:** Technical review, standards compliance

## Availability

Available for remote, freelance, and project based engagements. Flexible working hours.