

DEEPAK DJ

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SUMMARY

Engineering student specializing in Electronics and Communication, with strong skills in inverter design, machine learning-based fault diagnosis, and data analytics. Proficient in MATLAB, Python, and C++, with hands-on experience in EV inverter modeling and ML applications. Passionate about using data-driven approaches to enhance EV and automotive technologies.

TECHNICAL SKILLS

Machine Learning
Power Electronics
Data Analytics using AI-LLMs

PROGRAMMING LANGUAGES

Python
c++
MATLAB Programming

EDUCATION

Bachelor of Electronics and communication Engineering

Dec 2022 - June 2026

JSS Academy of Technical Education, Bengaluru
CGPA: 7.6

XII

Aug 2020 - June 2022

SDC PU & Degree College, Bangarpet
Percentage: 81%

ACADEMIC PROJECTS

• Fault Diagnosis and Protection of EV Inverter using Machine Learning

I simulated various faults and collected data for machine learning analysis, developing ML models for fault detection and classification to enhance inverter protection and reliability. My work focused on data preprocessing, feature extraction, and training machine learning algorithms to achieve accurate fault diagnosis.

• Designing a Three-Phase Inverter for EV

Modeled a basic inverter and analyzed output performance for EV applications.

ADDITIONAL INFORMATION

Certifications

- Python Essentials 1 — Cisco Networking Academy
- Python Essentials 2 — Cisco Networking Academy
- MATLAB Onramp — MathWorks
- Object-Oriented Programming Onramp — MathWorks
- Data Analytics using AI-LLMs — AICTE and VOIS
- Machine Learning for Engineers — NPTEL (In Progress)

Languages: English, Kannada, Telugu, Tamil, Hindi.

Hobbies: Playing guitar, chess, exploring electric vehicle technologies, reading about machine learning and AI.