

DEEPIKA K

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Aspiring Electrical and Electronics Engineer eager to apply technical knowledge and problem-solving skills to real-world challenges. Passionate about innovation and continuous learning, with a strong desire to contribute to projects that enhance efficiency and advance technology.

SKILLS

- Python/Java(Basics)
- SQL
- Git & GitHub
- AI Tools
- Cloud Computing (AWS & Azure)
- ETAP Software
- PVsyst Software
- Matlab Software
- EasyEda Software
- MS Excel & Google Sheets

PROJECTS

• SOLAR POWERED ELECTRIC VEHICLE

This project proposes a hybrid RL–MPC energy management strategy for solar-powered V2G EVs that maximizes economic profit while ensuring battery safety and long-term health under dynamic operating conditions.

• DYNAMIC SECURITY PROVIDER WITH RANDOM NUMBERS (LAVA LAMP):

Developed a security system using a lava lamp as a true random entropy source, capturing chaotic motion via a camera to generate unpredictable random numbers.

INTERNSHIP & INPLANT

• COMPANY: RE tech Solutions Pvt Ltd.

City/State: Chennai, Tamil Nadu

Time Period: 02/01/2024 to 03/02/2024

• COMPANY: TSMT Technology India Pvt Limited

City/State: Chengalpattu, Tamil Nadu

Time Period: 27/06/2024 to 11/07/2024

ACHIEVEMENTS

- **AWS Educate – Introduction to Cloud 101, Introduction to Generative AI & Machine Learning Foundations** | Amazon Web Services (AWS) — Knowledge in cloud computing fundamentals, AI/ML concepts, and generative AI applications.
- **AINNOVATION 2025 – Applied AI Learning Challenge, Microsoft AI Learning Challenge & Microsoft Azure Learning Challenge** | Microsoft — Completed AI and Azure skill-based learning challenges covering applied AI, cloud fundamentals, and Azure technologies
- Participated in the All India Workshop on “An Overview of the present and future outlook of Electric vehicles in India Approaches and Perspective”.

EDUCATION

Saveetha Engineering College

2022-2026

B.E. (EEE) with Honors in Electric Vehicles., CGPA - 8.6

The National IT Matric., Intl., Hr., Sec., School

2022

HSC, Percentage - 77%

The National IT Matric., Intl., Hr., Sec., School

2020

SSLC, Percentage – 84%

