

PRASHANT KUMAR

☎ +91-8271746552 ✉ prashantkr636@gmail.com  Prashant Kumar  Github

SUMMARY

I am an EEE undergraduate student with a sincere interest in Software development and Web development. I have solved more than 200+ DSA problems with a strong desire to contribute to advanced computing solutions, I hope to learn from experienced engineers and be part of innovative Software development projects.

Education

National Institute of Technology Andhra Pradesh

Nov 2022 – May 2026

Bachelor of Technology in Electrical & Electronics Engineering, CGPA : 7.97/10

Tadepalligudem, Andhra Pradesh

Relevant Coursework

- Python
- Introduction to Machine Learning
- MATLAB
- Embedded Systems
- Control systems
- Power Electronics

Experience

Grid Controller Of India Limited

June 2025 – July 2025

Electrical Engineer Intern

Kolkata, West Bengal

- Analyzed India's renewable energy (RE) expansion plans and assessed the challenges in integrating 500 GW RE capacity (solar, wind) by 2030 into the national grid..
- Studied technical challenges such as grid stability, variability of renewables, frequency control, and reactive power management and Proposed solutions including battery energy storage systems (BESS), demand-side management (DSM), flexible thermal generation, and grid digitalization.

CodSoft

March 2024 – April 2024

Web Developer Intern

Remote

- Developed and deployed a responsive personal portfolio website using HTML, CSS, JavaScript.
- Optimized the site for performance, SEO, and mobile-first design, and successfully deployed on Github.

Technical Skills

Programming Languages: Python, C++, HTML, CSS, JavaScript, Numpy, MySQL

Developer Tools: VS Code, Matlab, Matlab Simulink, Arduino, PCB Design, Verilog, Git, Github

Languages: English, Hindi

Projects

On board EV Charger | MATLAB, Arduino, PCB Design

March 2025

- Designed and simulate a high-efficiency, buck converter based on-board electric vehicle charger with adaptive Constant Current–Constant Voltage (CC-CV) control. The project aims to ensure reliable, safe, and sustainable battery charging.
- Tools & Technologies: DC-DC converter, Battery Management Systems, Power Electronics, Microcontroller (Arduino/Raspberry Pi), MATLAB (for simulation), Embedded Systems.

E-Commerce Sales Analysis | Power BI, Data Visualization

April 2024

- Designed and developed an interactive Power BI dashboard visualizing sales performance across states, cities, product categories, and payment modes.
- Analyzed 438K in total sales, 37K profit, and 5,615 units sold to identify high-performing regions, products, and customer segments.
- Provided recommendations for targeted marketing, inventory optimization, and payment strategy improvements..

Portfolio | HTML, CSS, Javascript

April 2024

- Developed a responsive single-page portfolio using HTML, CSS, JavaScript, optimized for various devices.
- Integrated dynamic content rendering and interactive UI features using JavaScript, enhancing user experience and engagement

Leadership / Extracurricular

- Gained certificate on "NPTEL-System Design Through Verilog" (88%), & Hands-On Programming and Microcontroller Interfacing .
- Joint Secretary at Brindavanam Club (Aug 2024-Present).
- Volunteer at Vriksh Be The Change (Aug 2020-Present).