**Madhvendra Singh Palawat**

madhvendrasinghts[@gmail.com](mailto:first.last@gmail.com) | P: +91 7976968347 | [LinkedIn](https://www.linkedin.com/in/madhavendra-singh-a469a2218/) | [Portfolio](http://madhavspalawat.netlify.app)

Highly skilled and certified professional with 2+ years of expertise in software development, electronics, and research. Extensive experience working on full stack development, machine learning, and hardware-based projects. Proven track record of optimising processes and delivering cost-effective solutions. Adept at managing cross-functional teams, freelancing projects, and developing applications to solve business problems.

**WORK EXPERIENCE**

**Full Stack Engineer CSD Instruments Pvt. Ltd.** *Jun 2024 – Present*

*A company that specialises in manufacturing hardware products for the power sector and provides electrical fault location services.*

* Developed and launched the company website using LAMP stack, enhancing lead generation through forms and integrating Mailchimp autoresponder.
* Designed and implemented an expense tracking mobile application, **reducing fraudulent billing cases by 36%**, leading to an **11% cost-saving** on each field job.
* Integrated Arduino-based GPS tracking functionality for their latest product line and made a dashboard for product tracking using Google Maps API.
* Provided my serviceas a **team lead for software R&D for 2.5 months**

**Freelancer Self-employed** *Jan 2024 – Jun 2024*

*Took time to learn new skills and tech stacks.*

* Developed a MERN-based website for *Manohar Villa*, a hotel in Rajasthan, integrating lead generation through forms and linked to Makemytrip.
* Created a MERN stack job portal, developing **authentication functionality for *SMTrade,* an online trading platform**, using JWT and cookies.
* Published *Dutch*, an app built with react native featuring OAuth integration, designed to help users split expenses.

**Graduate Engineer Trainee Daimler Trucks Pvt. Ltd.** *Feb 2023 – Jan 2024**Daimler Trucks is a global leader in commercial vehicle manufacturing, specialising in producing heavy-duty trucks and buses.*

* Contributed to the **development of the latest Actros truck line** for DTAG, **automating the testing of 70+ test cases** using deep learning.
* Developed testing software for the ECUs of trucks using Python and C++ **reducing the time taken in testing by 14%**.
* Optimised problem-solving and diagnostic tools for identifying failures in test cases.
* Provided expertise in electronics, software development, and the BTV part of truck development.
* Automated vehicle issue detection database using Python and machine learning to predict potential failures with **98.4% accuracy**.

**Research Intern PRDC Pvt. Ltd.** *May 2022 – Jul 2022*

*PRDC is a company that develops software solutions for electric grids.*

* Developed a PV emulator using linear regression, lookup tables, and an 8086 microcontroller to simulate solar plant operations, built at just Rs. 2108, as to standard Rs. 14,500, **reducing cost by 85%**.
* Contributed to the development of a software product line for simulating electric circuits and grids using Python and C#
* Optimised the power grid for a steel plant, reducing energy inefficiencies.

**PROJECTS**

* [**Projects**](https://drive.google.com/open?id=10IuE-UWSOrnQ8F5j1iyca80t0Al0kRgI)

**EDUCATION**

**NIT Warangal | *Bachelor of Engineering, Electrical and Electronics Engineering*** *Jul 2019 – May 2023*

* Cumulative GPA: 8.40/10
* Was part of the robotics club and an executive member of the literature club for 2 years.

**SKILLS**

**Hard Skills:** *Machine Learning, Deep learning, Node.js, React.js, Next.js, ExpressJS, C++, C#, Python, UI/UX, MongoDB, Electronics*

**Soft Skills:**Team Management, Leadership, Stakeholder Management, Problem Solving, Ingenuity, Negotiations, Critical Thinking

**Tools:** Jira, Agile, Tableau, Advanced Excel, Salesforce, MySQL, CANoe, Anaconda, Git, MATLAB, SciLab