R . PAVAN

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Education

B.E CSE (AI&ML), *Chennai Institute of Technology*   2022 – present │ Chennai, India
  CGPA- 8.80

Professional Experience

Machine learning Engineer, *Nova Techset* 🔗   04/2022 – 05/2022
  - **A prototype** to rival Grammarly, leveraging **NLP techniques** to detect errors in **scientific and technical publications** with 90% precision.
  - Developed a system to identify **subject-verb disagreements, and punctuation mistakes**, providing **alternative suggestions** to authors.

Python Developer, *Truly Media* 🔗   05/2024 – 07/2024
  - **Developed AI-based applications**, an **Image Caption Generator** using OpenCV and NER, achieving **90% accuracy** on 1,000+ images.
  - Optimized the system for **20% lesser false positive** and **87% True negative**, showcasing applications in **media and accessibility**.

Website Developer, *TechMedZ* 🔗   07/2023 – 10/2023
  - **Designed and developed** a responsive website using **React.js, Tailwind CSS, and Node.js**, achieving an **interactive design and UI.**
  - Enhanced user experience, using **dynamic interface and 3d model using spline** . Increase the **user interactions** and **usability .**

Projects

Driver Drowsiness Detection, *Python , OpenCV*   2022
  - Developed a **machine learning model** for **predicting sleep status** of an driver with **90% accuracy** and **20% fewer false positives**.
  - Improved **detection of sleep accidents** by **78%** and decreased the chances of accidents. While Driving an car or any vehicle

Water Forecasting Dashboard, *Frontend - React.js , Material UI , Graph.js*   2024
  - **Developed a React.js-based dashboard** for real-time water and reservoir forecasts with **interactive visualizations** and **dynamic graphs.**
  - Enhanced decision-making with **customizable data representations**, improving **water resource management** for stakeholders.

Travels Dashboard (Freelancing), *MongoDB , Express.js , React.js , Node.js*   2024
  - Developed a responsive **React.js dashboard** for **real-time ride data fetching**, trip assignment, and admin **workflow management.**
  - Built backend services with **Node.js, Express.js,** and **MongoDB** for ride management, **automated invoicing,** and email dispatch.

Skills

Language — Python / C++ / javascript /sql / Java /c   │   **Database** — MySQL / MongoDB / PostgreSQL   │   **Web Development** — React.js /
Node.js / express.js /Figma/bootstrap/Tailwind / HTML / css   │   **DevOps** — Git/ GitHub / jenkins / Docker / Kubernetes   │
Machine Learning   │   **Tools** — spaCy / Pandas / NumPy / Matplotlib / Postman / tablue / power bi / Scikit-learn / RestAPI / Linux   │   **NLP**

Coding Profiles

Leetcode — Top - 4% | Solved - 727 | Current Rating - 1953 | Max Rating - 1953 -Level Knight | Highest rank 705 in Biweekly Contest 147

CodeChef — 2 star | Max Rating - 1524 | Current Rating - 1459 |Solved 400+ | Highest rank 234 in Starters 144 Division 3

CodeForces — Max Rating - 1096 | Current Rating - 1096| 100+ Problems| highest rank 8088 in CodeForces 982 (Div 2) contest

Achievements

SIH Finalist 2024 (Hackathon),
Developed an innovative reservoir and water management dashboard, showcasing real-time data analysis and improving resource management.

Finalist EPOCH (IITD - Hackathon),
Developed an accident analysis dashboard, enabling data-driven insights for improved accident prevention and response strategies to avoid accidents.

Finalist in HACKCIT 2024 (Codeathon),
Competed in a codeathon showcasing problem-solving skills and innovative coding solutions in a highly competitive environment and increased my skills.

Certificates

AWS - Cloud Practitioner — Fundamentals of Cloud Development   │   **CISCO - Introduction to Networking** — Basic Network
Fundamentals   │   **UDEMY - Web Development Bootcamp** — Full-Stack Web Development   │   **UDEMY - Machine Learning A-Z** —
Comprehensive Machine Learning   │   **Meta Frontend Developer Professional** — Fundamentals and Frontend Tools

VOLUNTEERING

Graphic Design Team Lead, *MAGNUS*
  Led the Graphic Design team for Magnus Symposium, a national event and 1000+ participants and designed various posters.

Web Development Workshop Speaker, *Magnus*
  Delivered a lecture on modern web development, teaching 50+ participants practical skills and tools like React.js , Node.js , Tailwind.