R. PAVAN AI&ML ENGINEER

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Education

B.E CSE (AI&ML), *Chennai Institute of Technology*
CGPA- 8.80

2022 – present │ Chennai, India

Professional Experience

Machine learning Engineer, *Nova Techset* ✎   04/2022 – 05/2022
- **Engineered 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, language issues, and punctuation mistakes**, providing **alternative suggestions** to authors.

Python Developer, *Truly Media* ✎   05/2024 – 07/2024
- **Developed AI-based applications**, including an **Image Caption Generator** using OpenCV and NER, achieving **90% accuracy** on 1,000+ images.
- Optimized the system for **20% faster processing**, 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 **average load time under 2 seconds**.
- Enhanced user experience, resulting in a **30% increase in engagement** and a **20% rise in customer satisfaction** metrics.

Projects

Driver Drowsiness Detection   2022
- **Developed a machine learning model** for sleep status detection with **90% accuracy** and **20% fewer false positives**.
- Improved detection of sleep disorders by **15%** and increased user engagement by **25%** with personalized tracking.

Income price prediction   2023
- **Utilized machine learning models** like Linear Regression, Random Forest, and XGBoost to predict **income prices with 97% accuracy** on a large dataset.
- Enhanced predictions with **XGBoost**, driving better decision-making for **financial planning** and investments.

Water Forecasting Dashboard   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.

Skills

Language — Python / C++ / javascript /sql

Database — MySQL / MongoDB

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

Coding Profiles

Leetcode, *Max Rating - 1852 - level Knight* ✎

CodeChef, *Max Rating - 1524 - 2 Stars* ✎

CodeForces, *Max Rating - 1056* ✎

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.*

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

Certificates

CISCO - Introduction to Networking

CISCO - Introduction to Cyber security

UDEMY - Web Development Bootcamp

UDEMY - Machine Learning A-Z

VOLUNTEERING

Graphic Design Team Lead, *MAGNUS*
Led the Graphic Design team for Magnus Symposium, a national event with 12 activities and 1000+ participants.

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