SATHYAMOORTHY R

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Summary

A motivated AI & Data Science student with a strong technical foundation and hands-on experience in data analysis, machine learning, and real-world problem-solving. Started my journey as a Mechanical Design Engineer, where I built precision, discipline, and engineering mindset—but later discovered my passion for AI and shifted into the data-driven domain. Quick learner, adaptable, and eager to apply AI/ML skills to meaningful industry projects.

Professional Experience

Trainee Design Engineer — Hirotec (MNC)
2023 – 2024 (1 Year)

- Worked as a Design Engineer after completing Diploma in Mechanical Engineering.
- Designed and developed mechanical components as per company standards.
- Coordinated with cross-functional teams to meet project requirements.
- Improved understanding of industrial design processes and engineering workflows.

Data Science Intern — Sangam Soft Solutions
2025 (3 weeks)

- Worked on real-time data science tasks and gained experience in data preprocessing, visualization, and ML model development.
- Assisted in building data-driven solutions for business use cases.
- Enhanced hands-on skills using Python and data science tools.

Education

B.tech., Anna University Regional Campus Coimbatore 2023 - 2027
- CGPA upto 3rd Sem (7.37%)

SSLC (56.1%) Christus Rex Higher Secondary School,Ooty 2019 - 2020

Diploma (84.91%)Sri Ramakrishna mission Vidyalaya polytechnic college , Coimbatore 2020- 2023

Technical Skills

- **Data & AI Skills:** Python, SQL, Pandas, NumPy, Machine Learning, Deep Learning, Data Visualization,OpenCV.

- **Software & Tools:** Git, GitHub, Microsoft Office,VS code,Linux,Google collab.

- **Mechanical/Design Tools:** CATIA, Siemens NX, AutoCAD, Blender.

- **Interpersonal Skills:** Problem Solving, Time Management, Teamwork, Communication.

- **Other Technical Skills:** 3D Animation, Automotive Engineering, Metrology, Welding.

Achievements

Projects

- **Credit Card Fraud Detection using AI**: Built a web app using HTML/CSS/JS,MongoDB, and AI models to detect fraud and send real-time alerts.
- **IoT-Based Gas Leak Detection System**: Developed an Arduino-based real-time gasleakage detector with SMS alert and fan control features.
- **Smart Lane Assistant**: Developed a CNN + OpenCV–based lane detection system optimized for Indian road conditions.

Workshops & Hackathons

- Archathon 3.0 – National Level Hackathon (Government Engineering College Thrissur)

- Code Redemption - 24hr Hackathon (Jai Shriram Engineering College)

- Cybersecurity - National level technical symposium Workshop (National institute of Technology,Tiruchirappalli)

Certifications

- Google Cloud Cybersecurity Certificate from Google - Google cloud

- Microsoft concepts of cybersecurity - Cyber

- Generative AI in Action from IBM - IBM Skills

- MongoDB and AI fundamental - MongoDB