

SATHEESH A

Nagercoil, Kanyakumari District, Tamil Nadu, India

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PROFESSIONAL SUMMARY

Results-driven Machine Learning Engineer with hands-on experience designing, training, and deploying deep learning models for real-world applications. Proficient in Python and SQL, with expertise in machine learning using Scikit-learn and deep learning using PyTorch and TensorFlow. Skilled in data preprocessing, statistical analysis, and data visualization to derive predictive insights from complex datasets. Adept at building end-to-end ML pipelines, optimizing model performance, and delivering scalable, production-ready AI solutions.

EDUCATION

Bachelor of Engineering in Electrical and Electronics Engineering

August 2021 – May 2025

University VOC College of Engineering, Thoothukudi, CGPA: 7.42

TECHNICAL SKILLS

- **Programming & Database:** Python, SQL (MySQL)
- **Machine Learning:** Scikit-learn
- **Deep Learning:** PyTorch, TensorFlow
- **Data Science:** Pandas, NumPy, Matplotlib, Data Preprocessing, Statistical Analysis, Data Visualization
- **Version Control:** Git, GitHub

EXPERIENCE

Machine Learning Engineer

June 2025 – Present

Arrow Thought, Vellore

- Design, train, and deploy deep learning models for real-world AI applications using TensorFlow and PyTorch, building end-to-end machine learning pipelines from data ingestion to deployment
- Conduct statistical analysis and predictive modeling to support data-driven decision-making
- Perform data preprocessing, feature engineering, and model optimization to improve accuracy and computational efficiency across multiple project domains

PROJECTS

Blockchain-Based Data Framework for Modern Power System Against Cyberattack

- Designed a decentralized, blockchain-based data framework to strengthen cybersecurity of modern power systems, leveraging immutable ledgers and distributed consensus to eliminate single points of failure
- Implemented real-time anomaly detection to mitigate cyberattack risks and secure data exchange and access control
- Delivered a scalable, resilient security framework applicable to smart grid infrastructure, reducing vulnerability to evolving cyber threats

EV Charging Optimization Using AI

- Built an AI-driven optimization model to improve electric vehicle charging schedules and predict user behavior, reducing grid strain and charging costs
- Applied data science techniques in Python to analyze energy consumption patterns and enhance charging efficiency
- Delivered a scalable optimization approach adaptable to real-world EV charging infrastructure and smart grid integration

INTERNSHIP/TRAININGS

Python & AI Developer Trainee

January 2025 – February 2025

GTECH Private Limited, Nagercoil

- Completed hands-on training in core Python programming and applied AI concepts, gaining practical exposure to model development workflows and real-world problem-solving techniques

Practical Trainee

June 2024 – July 2024

BSNL Telecom Factory, Tirunelveli

- Completed hands-on practical training in telecom technology, gaining exposure to industrial communication systems and equipment