

Methunraj A

Bachelor of Technology

SRM Institute of Science and Technology, Tiruchirappalli

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🌐 LinkedIn Profile

🐙 Github Profile

EDUCATION

- **Bachelor of Technology in Computer Science and Engineering** 2023-27
SRM Institute of Science and Technology, Tiruchirappalli CGPA: 9.33
- **12th Grade** 2022-23
Bharani Park Matric Hr Sec School, Karur Percentage: 82.6
- **10th Grade** 2020-21
Gurudevar Matric Hr Sec School, Karur Percentage: 81.8

PERSONAL PROJECTS

- **Lost and Found Management System:** A full-stack web app for reporting and retrieving lost/found items.
 - Built a web app to report, search, and match lost/found items.
 - **Frontend:** React (Vite + TypeScript) with Tailwind CSS and Shadcn UI.
 - **Backend:** Flask REST API, **MySQL** for secure storage.
 - Implemented **user authentication**, image uploads, and **advanced search/filter**.
 - Added an **AI-based image similarity feature** to suggest matches.
- **Property Price Prediction:** A machine learning model to predict property prices.
 - Built models (Linear, Multiple Regression, XGBoost) for California housing prices.
 - Performed **EDA**, feature engineering, model evaluation (RMSE, R^2).
 - Achieved best accuracy with **XGBoost**.
- **Customer Churn Prediction:** Supervised ML solution to predict telecom customer churn using classification models.
 - Performed data analysis, preprocessing, and feature selection on telecom datasets.
 - Implemented models: Logistic Regression, Decision Trees, Random Forests, SVM.
 - Evaluated performance via confusion matrix, precision, recall, F1-score.
 - Visualized feature importance and deployed results to support retention strategies.

EXPERIENCE

- **Infosys Virtual Internship 6.0** Aug – Present 2025
Infosys Springboard Online
 - Developing backend and automation with Python technology stack.
 - Building RESTful services and scripts for real-world business scenarios.
 - Collaborating in online team challenge labs and completing hands-on modules.
- **Deloitte Australia Technology Job Simulation** July 2025
Forage Online
 - Completed a virtual job simulation focused on development and coding tasks.
 - Wrote a project proposal for creating a dashboard solution.
- **Defence Research & Development Organisation, CVRDE, Avadi** Jun – Jul 2025
DRDO Hybrid
 - Project: **Development of Computer-Aided Process Planning for Objects with Bézier Curve Profile**.
 - Developed toolpaths using quintic Bézier curves for CNC process planning.
 - Extracted control points, reconstructed curves, performed Bernstein polynomial analysis.
- **AWS Data Engineering Virtual Internship** Jan – Mar 2025
AICTE-Eduskills Online
 - Worked with AWS Glue, Redshift, S3, Athena.
 - Built data pipelines and ETL workflows for structured/unstructured data.
 - Learned data ingestion, transformation, storage, and query practices.

• Generative AI Virtual Internship

Oct – Dec 2024

AICTE-Eduskills

Online

- Explored GenAI fundamentals: LLMs, prompt engineering, text/image generation.
- Used Google Vertex AI, OpenAI API for generative projects.
- Applied AI-generated content and human-in-loop workflows.

• AI/ML Virtual Internship

Jul – Sep 2024

AICTE-Eduskills

Online

- Learned supervised/unsupervised ML, model evaluation.
- Implemented projects with Python, Scikit-learn.
- Performed preprocessing, feature selection, optimization.

RESEARCH & PUBLICATIONS

• Green Task: A Carbon-Aware Scheduling Algorithm for Enhancing Energy Efficiency in Edge-Fog Computing System

Published in International Journal for Science and Advanced Technology (IJSAT), Vol. 16, Issue 3, July–September 2025

Co-authored a research paper proposing a carbon-aware task scheduling algorithm for edge–fog computing environments. Integrated system-level task allocation to reduce carbon footprint while maintaining performance. Led complexity analysis and simulation evaluation with a multidisciplinary team.

TECHNICAL SKILLS AND INTERESTS

Languages: Python, C/C++, SQL, JavaScript, HTML, CSS

Libraries/Tools: React, NumPy, Pandas, Matplotlib, Seaborn, Sklearn

Frameworks: Flask

Coursework: Data Structures & Algorithms, DBMS, Operating Systems, OOP

Interests: Software Engineering, Full Stack Development, Cloud & AI Integration, Machine Learning, Data Engineering

Soft Skills: Problem Solving, Self-Learning, Quick Learner, Adaptability, Team Collaboration, Deep Analyzer

CERTIFICATIONS

- Certified Machine Learning, Internshala
- Introduction to Computer Vision and Image Processing, IBM
- Certificate of Participation, Learnathon 2024
- Certificate of Participation, Tata Imagination Challenge
- NPTEL - Joy of Computing and Database Management System