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# 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, R2).

–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