

# Sakthivel C

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 [sakthivel-136.github.io/BLOG](https://sakthivel-136.github.io/BLOG)

## Education

**Kamaraj College of Engineering and Technology**  
Bachelor of Engineering (B.E) in Computer Science; GPA: 7.42

**K.V.S MAT HR SEC SCHOOL**  
Computer Science; Mark: 380

Virudhunagar, India  
2023 – Present

Virudhunagar, India  
2022 – 2023

## Skills Summary

**Languages:** Python, SQL

**Frameworks:** Pandas, Numpy, Scikit-Learn, Matplotlib

**Tools:** Excel, PowerPoint, MySQL

**Platforms:** Jupyter Notebook, Visual Studio Code

**Soft Skills:** People Management, Excellent Communication, Leadership

## Work Experience

**Machine Learning Intern** June 2025 – November 2025

*PANITH INNOVATIONS*

- Gained hands-on experience in Machine Learning algorithms, including Supervised, Unsupervised, and Reinforcement Learning.
- Analyzed real-world datasets to determine the most effective ML models for specific industry use cases.
- Studied the practical application of ML types (Classification, Regression, Clustering) to solve complex business problems.
- Collaborated with senior developers to understand the lifecycle of deploying ML models in real-time environments.

## Projects

**AI-Powered Dental Cavity Checker** — Python, Streamlit, Machine Learning, APIs July 2025

- Developed a real-time healthcare application using Python and Streamlit that allows users to capture and analyze dental images for cavity detection.
- Integrated Live APIs to process image data and deliver instant diagnostic feedback to patients through a secure login portal.
- Utilized Machine Learning frameworks to classify dental health markers, ensuring high precision in real-time analysis.
- GitHub: [github.com/sakthivel-136/Cavity-checker](https://github.com/sakthivel-136/Cavity-checker)

**IoT-Based Smart Air Quality & Climate Monitoring System** — IoT, Data Analytics Nov 2025 – Present

- Designing a product-based IoT solution to monitor air quality, CO2 levels, and temperature across multi-floor buildings in real-time.
- Creating a Predictive Alert System that identifies health risks (e.g., for individuals with Asthma) and detects HVAC inefficiencies based on temperature imbalances between rooms.
- Utilizing IoT hardware and data analytics to provide actionable insights into room maintenance and environmental safety.

## Certificates

**Networking Essentials** — Cisco Networking Academy Oct 2025

- Completed a comprehensive 70-hour course covering networking fundamentals, protocols, and security essentials.

**ML A-Z: Google Looker for Developers** — Udemy Nov 2025

- Mastered data visualization and business intelligence development using Google Looker and ML integration.

**Application of AIML for Crop Acreage Mapping** — ISRO Online Conference April 2025

- Explored how AI/ML models are revolutionizing precision farming, crop yield prediction, and targeted land area mapping.