

# Archana K

Mayiladuthurai, TamilNadu

Email : archanakalyanam16@gmail.com Contact : +91 9363152241

Portfolio : archanakalyanam.github.io LinkedIn : archana-kalyanam

## TECHNICAL SKILLS

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**Programming languages :** Java, Python , Javascript

**Frontend :** HTML, CSS

**Backend :** Spring boot, core Java, JDBC,JPA

**Database :** MYSQL, SQL ,MongoDB,PostgreSQL

**Tools :** Git and Github,Personal Image Classifier, MIT App Inventor,VS code

**Core Subjects :** DBMS , OOPS, Operating Systems

## EDUCATION

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**Sastra Deemed University , Thanjavur.**

*Bachelor of Technology – Computer Science*

**CGPA : 6.8/10**

OCT 2021 – JUN 2025

**GGSM Matric Hr. Sec. School, Mayiladuthurai.**

Class XII - HSC

**Percentage:87/100**

JUN 2019 – JUN 2021

**GGSM Matric Hr. Sec. School, Mayiladuthurai.**

Class X - HSC

**Percentage:79/100**

JUN 2018 – APR 2019

## PROJECTS

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### QuickCart – Full-Stack e-commerce Web Application

*Java springboot Project / MIT App inventor,HTML/CSS + Sprin Boot+maven/ June 2025*

Shopping\_Cart is a robust Spring Boot-based e-commerce platform designed to streamline the development of modern shopping experiences. It combines a flexible architecture with ready-to-use templates, enabling developers to quickly build, customize, and manage scalable e-commerce websites.

### Grading System for Fruits and Vegetables using Machine Learning

*Mobile + ML Project / MIT App Inventor + Custom CNN / May 2025*

Created a CNN-powered mobile app using MIT App Inventor and a personal image classifier to train/test models for fruit and vegetable grading, disease detection, and nutrition analysis. Achieved 82% accuracy and supported agricultural quality control by reducing manual grading errors by 40%.

### Predictive Modelling of Electricity Prices using Machine Learning

*Data Science Project / Python, Jupyter Notebook, HTML/CSS / April 2025*

Developed regression models (Linear, Random Forest, Bayesian) on 35K+ records using PCA, t-SNE, and feature selection techniques. Reached 96% prediction accuracy and deployed the top-performing model via Modelbit, with results visualized on a GitHub Pages frontend.

### Canteen Connect – Full Stack Web Application

*Full-Stack Project / MERN Stack / January 2025*

Developed a real-time food ordering platform with a responsive HTML/CSS/JavaScript frontend and MongoDB, Express, React, Node.js backend. Enabled live order tracking and menu management, reducing wait times by 30% and improving user experience in campus canteen environments.

## CERTIFICATIONS AND ACHIEVEMENTS

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- Full Stack Web Development course on Udemy
- Java Programming course on Udemy
- Hockey State level player in schooldays.