



Paul Raj

Student

I am an organized and efficient engineer and app developer with enquiring mind, passionate about AI, ML, and Robotics. With 3 years of experience in Python and Java, 1.5 years in Android development, and a year in AI, ML, ROS, AV (autonomous vehicles), and IoT, I bring a diverse skill set and the ability to work under stress while quickly adapting and learning.



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EDUCATION

10th & 12th Grade

Sree Dharmasastha Matric Hr Sec School

06/2018 - 03/2021

marks

● **10th** (06/2018 to 03/2019) - **81%**

● **12th** (06/2020 to 03/2021) - **87%**

College

KGiSL Institute of Technology

11/2021 - Present

7.7 CGPA

Courses

● B.E. CSE

PERSONAL PROJECTS

Video To Slide

A Python application that converts video to presentable slides using OCR.

App for Interior Works

An Android application for kitchen interior works and its calculations.

App for women saftey

An Android app with features like a period calculator, hidden camera detection, emergency alerts, and women's news feed.

Yolo v5 and v8 are used for custom object detection in RealSense D455 for depthfinding.

Object detection using YOLO and RealSense D455 for an autonomous drone project.It also tells the distance of the object detected

sign language detection

A Python & ml based project which covert Audio to sign language

webscarping a full website

A Python project that scarps the entire website code using Selenium and Beautiful Soup helps learners understand the structure and code of a website.

video & image encryption and decryption

A python and streamlit app for encrypting and decrypting image and video uses DES algorithm

Meta positioning subtitle

A Python project that recognizes text in a video and then seamlessly moves the subtitle to avoid covering over any of the text.Utilizing Tesseract OCR

TimeTable generator for college

A Python application that generates timetables based on the Anna University syllabus

CONFERENCE ATTENDED

Devfest 2022

by Google Developers Group in Coimbatore

AZConf Dev 2023

AZ - Cloud & AI Conference in IIT Madras

EVENTS ORGANIZED

Pyexpo 23 & 24

Its an Python based project event for freshers in college . It consist of problem statement selection, Teaching,Hackathon , Project Pitching and Project Presentation

Future Mobility Technology Center Inauguration

At KGiSL Institute of Technology, I am also one of the event coordinators for the FMTC (Future Mobility Technology Center) Inauguration Ceremony. This event is about Thoughtworks and KITE collaborating to research in future mobility technology.

TECHNICAL SKILLS

Python

Android

Java

C/C++

Bash

Computer Vision

AI/ML

IoT

Flutter

SQL

Git & Github

Firebase

Web Development

DSA

Problem Solving

ROS

Linux

React

Docker

CERTIFICATES

Programming for Everybody with Python

● Coursera Certificate recognised by University of Michigan

Introduction to Machine Learning

● Duke university

Mathematics for Machine Learning and Data Science

● DeepLearning.AI

Object Oriented Programming in Java

● University of California San Diego

IR 4.0 Foundation course

● linux,database,webdevelopment,programming and cloud basics

Edunet-TN- Machine Learning to Generative AI

● lbm skillbuild and naan muthalvan

Code Foundation for ROS

● The Construct

Introduction to Mobile Development

● Meta

ACHIEVEMENTS

PyExpo KGiSL (03/2022 - 02/2022)

RUNNER UP

AGILE Startup Bootcamp (08/2022 - 08/2022)

RUNNER-UP

COLLABORATIVE PROJECTS

Autonomous drone based delivery

Developed an autonomous goods delivery drone in a project funded by Anna University. The drone integrated IoT and AI/ML technologies with hardware like ESC, Jetson Orin, and Pixhawk, using Mission Planner software.

F1 tenth

Built a 1/10th scale autonomous F1 car for the F1 Tenth Racing Competition. This project involved integrating IoT and AI/ML technologies. It also uses concepts like ROS, LiDAR for SLAM

LANGUAGES

English

Full Professional Proficiency

Tamil

Native or Bilingual Proficiency

SOFT SKILL

Problem Solving

Adaptivity

critical thinking

Leadership

Decision Making

Time management

Multitasking

Learning Agility