

# Pavan K

As a dedicated and hardworking student , I believe in the power of innovation, continuous learning, and networking. With a diverse skill set and a passion for growth, I am committed to make a positive impact in myself and my surroundings. I have developed proficiency in several key areas like **PyTorch**, **MERN Stack**, **C++**, **Java**, **Python**, **Arduino**

I leverage these skills to apply wherever it's necessary. Driven by a genuine passion for my work, I am dedicated to delivering high-quality results and exceeding expectations. I look forward to connecting with you and engaging in meaningful professional discussions. Let's inspire and empower each other as we navigate the exciting world of work together!

## Personal Info

### Phone

7760895008

### E-mail

pavandimpu1234@gmail.com

### Date of birth

19/07/2004

## Skills

Python

PyTorch

MERN

Arduino

Raspberry Pi

Java

JavaScript

C

C++

C#

## Links

### LinkedIn

<https://www.linkedin.com/in/pavan-k-804612250/>

### Portfolio

[pavansbio.netlify.app](https://pavansbio.netlify.app)

## Hobbies

Gaming

Coding

Listening to music

## Languages

## Experience

### Joint Secretary

Build Club, Presidency University Present

## Education

### B.Tech

Presidency University / 11/2022 - Present  
Bengaluru

## Courses

### 100 Days of code: Python Pro Developer Certification

Udemy / 05/2023 - 06/2023

### PyTorch for Deep Learning Bootcamp

Udemy / 07/2024 - 08/2024

### Sigma 6.0 (MERN Stack)

Apna College / Present

## References

### Dr. Divya Rani M S from Presidency University

head.innovativeprojects@presidencyuniversity.in | +91 94803 13352

## Honors & Awards

### MedCuore Tech Innovation Challenge

05/2023

Chennai

4th place, Certificate of Appreciation, IIT Madras Research Park

Topic:- Vaayuvaidya - The Medical Drone

### Bytebash - Software Hackathon

06/2024

Bangalore

Secured 3rd place, Certificate of Appreciation, Presidency University

Topic:- Diet Planner Website

### Technovanza - Arduino Hackathon

06/2024

Bangalore

Secured 2nd place, Certificate of Appreciation, Presidency University

English

Kannada

Hindi

Topic:- Energy Conservation

## Build To Innovate Challenge

06/2024

Chennai

Semi-Finals, Certificate of Appreciation, IIT Madras Research Park

Topic:- IOT Based Smart Water Meter

## Volunteer Experience

### Coordinator

06/2023

Innovatex 2.0, Presidency University, Bengaluru

### Coordinator

06/2024

Project Expo At Presidency University, Bengaluru

### Coordinator

08/2024

Achiever's Dialogue 2024, organized by NISAU (UK) at Presidency University

## Projects

### SECURE-T(Security Turret)

11/2023

The SECURE-T with automatic shooting turret utilizing Open CV is an innovative system designed to enhance security measures. Leveraging Open CV's computer vision capabilities, the turret employs real-time image processing to detect and track potential intruders within its field of view. Upon identification, the system activates an automatic shooting mechanism, providing a robust response to unauthorized access. This integration of Open CV technology enhances precision in threat detection, making the theft security turret an efficient and proactive solution for safeguarding premises.

### Arduino based Curtain Raiser

06/2023

Curtain Raiser is an innovative home automation project designed to provide a modern, convenient solution for controlling curtains using Arduino and Bluetooth technology. By integrating these technologies, Curtain Raiser allows users to remotely open and close their curtains, enhancing both convenience and accessibility in managing home environments.

### Career Genie - An AI Based Career Counselling

06/2024

Career GENIE is an AI-driven career guidance platform designed to make career choices and counseling accessible to every child at the secondary level. By integrating advanced self-assessment tools and personalized career paths, the platform aims to empower students with informed decisions about their future careers. Career GENIE leverages cutting-edge technologies like React, MongoDB, FastAPI, Langchain, Express JS, and OpenAI API to deliver a user-friendly and interactive experience.

### KISANET - Smart Agriculture and E-Commerce Platform

05/2024

Developed an integrated smart agriculture system that monitors soil parameters, tracks plant growth, and assesses product quality using AI and IoT technologies. The platform also includes an e-commerce solution for direct sales to consumers, offering real-time data on crop health and quality. KISANET leverages predictive analytics and automated nutrient management for efficient and sustainable farming practices.

## IOT Smart Water Meter

05/2024

This project involves the development of an IoT-based smart water meter powered by solar energy, designed to optimize water usage in agricultural settings. It integrates AI models to predict the most suitable crops for a given area based on soil nutrient levels, specifically the Nitrogen (N), Phosphorus (P), and Potassium (K) values.

## FoodVision

06/2024 - 07/2024

Built with PyTorch and Vision Transformer (ViT) Architecture | Food Classification (101 Types)

Developed a food recognition system utilizing the Vision Transformer (ViT) architecture in PyTorch, enabling the classification of 101 distinct types of food.

Implemented advanced deep learning techniques for enhanced accuracy in food identification, applicable to sectors like health, nutrition, and food automation.

Optimized the ViT model for real-time food item recognition, contributing to more efficient food tracking and dietary assessments.