BHAGYALEKSHMI P J

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PROFILE SUMMARY

A diligent individual seeking a responsible position to enhance practical experience. I aim to utilize my interpersonal skills to achieve the company's objectives and demonstrate my value as a significant asset to the organization.

EXPERIENCE

IBM Skills-Build June 2024 - August 2024

Artificial Intelligence and Machine Learning Intern

- Gain access to the IBM Skill-Build Platform with curated covering both technical and professional skills relevant to the industry.
- Enhance the learning experience in a project-based , collaborative environment

EDUCATION

- **Rajiv Gandhi Institute Of Technology** *November 2021 – May 2025*

Electronics and Communication Engineering Kerala, India

- CGPA: 7.50

- **CPM GHSS Peermade, Idukki** *April 2021*

Higher Secondary Education Kerala, India

- Percentage: 97.3%

- **Girls High School Karunagappally,Kollam** *April 2019*

Secondary Education Kerala, India

- Percentage: 99%

SKILLS

Programming Languages: Python, JavaScript

Markup Languages: HTML, CSS

Database Systems: MySQL

Soft Skills: Effective Communication,Team Collaboration,Problem-Solving, Adaptability,Time management

Languages: English, Malayalam,Hindi

PROJECTS

- **SMARTCART:THE INTELLIGENT SHOPPING TROLLEY SYSTEM** *June 2024*

Tools: [Flutter, Firebase,Arduino IDE]

SmartCart is a smart trolley system with an integrated billing solution designed to automate product identification,billing, and payment, eliminating checkout queues and enhancing the retail shopping experience. Built using Arduino/Raspberry Pi, sensors, and a custom Flutter-based app, it combines hardware and software to create a seamless, real-time shopping process.

- **AUTOMATIC HEADLIGHT DIMMER AND GPS TRACKING SYSTEM** *May 2024*

Tools: [Arduino IDE,Proteus software,Arduino,GSM module,GPS module,Accelerometer,SPDT Relay,LDR Sensor,PCB Board]

The Automatic Headlight Dimmer and GPS Tracking System enhances road safety by reducing glare from oncoming headlights using an LDR-based dimming system and ensures accurate accident location tracking through GPS, GSM, and accelerometer modules. Developed using Arduino and simulated in Proteus, the system automatically alerts emergency services with real-time location data to speed up rescue operations.

- **ECOVISION-AI POWERED DEFORESTATION DETECTION USING RESNET-50** *May 2024*

Tools: [FastAI,PyTorch,Google colab GPU]

EcoVision is a deep learning-based system that detects deforestation from satellite imagery using a fine-tuned ResNet-50 model on the Amazon Planet Dataset for accurate multi-label classification. Trained on Google Colab GPUs, the model achieved a 92.7% F2-score, demonstrating its effectiveness in supporting data-driven environmental conservation.

CERTIFICATIONS

- Coursera course Certificate for Machine Learning with PYTHON offered by IBM
- Certificate for PROJECT MANAGEMENT FUNDEMENTALS offered by IBM ,
- Certificate for ARTIFICIAL INTELLIGENCE FUNDEMENTALS offered by IBM