Alex Jolly
Research and Development

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Summary

Four years plus experience working in Hardware and IOT. Have done projects on Deep-Learning Computer Vision . Actively participated and have also held Hands- on workshops on IOT and Machine Learning under IEEE and FAB community. A core member of FAB-LAB FISAT.

Work Experience

IOT Developer
2016 - 2020

Technorip Innovations Pvt Ltd

Firmware development on IOT hardwares

Intern
7/2018 - 8/2018

Neuroplex Pvt Ltd

Vehicle colour recognition using computer vision

AI Developer
2019

G'Xtron Innovations

Face and emotion recognition using Tensorflow with Keras

Education

B.Tech- Electronics & Communication Engineering
2016-2020

Federal Institute of Science And Technology (FISAT),Angamali

APJ Abdul Kalam Technological University (initially Kerala Technological University)

Higher Secondary Education
2012 -2014

Mar Augustine Memorial Higher Secondary School,Koratty

Computer Science

Class 10
2011

St. Joseph's high school, Meloor

State Board

Achievements

- Presented a project on international FAB community conference FAB15-EGYPT held in Egypt (2019)

- Winner of AI Fest 2.0 – conducted by IEDC COET powered by KSUM (2019)

- Selected in Idea Fest -2019 organised by Kerala Startup Mission

- Runner-Up of India Skills Kerala 2018 organised by Govt. of Kerala and KASE. Also participated in south zone national level

- Winner of Robothon 3.0 (2017) Robotic completion connected by IEEE SB at College of Engineering Chengannur

- Skill Icon of the year Nypunyam 2016 International Skill Summit and Skill Fiesta is organised by Kerala Academy of Skill Excellence (KASE) and Directorate of Employment and Training (DET)

Completed Projects

- **IRIS (Intelligent Realtime Interactive system):**
  An interactive mirror showing live news updates, weather forecasting, calendar, time and so on. It can also answer user's queries and can recognise people as well as their emotions using Deep Learning and image processing technologies.

- **Face recognising chatbot :**
  It identifies the gender and facial expression of the user and interacts with them depending on the mood of the person by identifying the facial expressions.

- **Portable fingerprint attendance system :**
  IOT based portable fingerprint attendance system for classrooms. Capable of uploading the attendance correctly to the website and informing the parents incase their ward is marked absent.

- **Autonomous farming robot :**
  To monitor the atmospheric and soil conditions .For plucking ripened fruits and notifying farmers about the number of fruits collected, status of work and soil condition.

- **Vehicle colour recognition :**
  This system can recognise the colours of the car from the cctv camera using computer vision

- **Surveillance system :**
  It can detect abnormal motions and send a notification to the owner.

- **Object detection :**
  It can detect trained objects using deep-neural network with Tensorflow

- **Mobile robot :**
  This movable robot can solve both wall and path mazes . Also it can pick objects in front of it and place it in respective locations

On Going Projects

- **Intelligent Hybrid Private IOT platform :**
  Creating a private LPWAN network and an intelligent platform to solve internet failure or poor internet connection for IOT applications. Also it gives more security .

- **RiMo(River Monitoring System):**
  A project being done under Kerala Startup Mission and IT Mission with the help of MakerGram . It is a flood monitoring system. It monitors the river water flow and the water level and predict the possibility of flood and the areas prone to it.

Participated Events

- OpenHack 2019 - organised by Govt. of Kerala and Kerala IT Mission held in Integrated Startup Complex Kalamassery. Had Hands-on experience on IOT and Machine learning.

- Python Programming Workshop 2019 By ICT Academy of Kerala in association with Kerala Startup Mission at FISAT

- IEDC Summit (2017,2019) Asia's largest student Entrepreneurship Summit by Kerala Startup Mission

- GDG DevFest 2018,2019 by Google Developer Groups.

- Flowers TV Student Startup Program 2019

- Vertical Eye 2018 - Training workshop on power communication, FISAT

- IDEATHON 2017 – Flagship event of KEY Accelerator and KSUM

- Smart India Hackathon 2017 under Ministry of Tourism

Programming and Technical Skills

Git and Linux

Robotics
Making and Controller Programming

Python
Frameworks: Tensorflow(Keras),OpenCV,Django

C++, C
Embedded and Controller Programming

Controllers and Processors
Arduino Controllers,ESP(NodeMCU),Particle,Raspberry Pi

References

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