KABIIR KRISHNA

kabiirk.github.io

7th Semester VIT student, seeking opportunities in domains like (A). Automation with IoT, (B). Embedded Systems, (C). Strategies to integrate disruptive automation technologies to achieve higher degree of intelligence, integrity & interactivity during Data-acquisition-Processing-&-Analytics phases leading to transformative outcomes.

Skills

Assembly
C++
Javascript
Python
Dart

Tools

PowerBI
AVRDude
AVR Studio (32-bit)
Flutter (Android)
D3.js
Docker
Kubernetes

Academics

B.Tech.   *2017 - Present*
Vellore Institute of Technology, Vellore
Pursuing Bachelor of Technology in **Electronics & Communication Engineering with specialization in Internet of Things (ECE spl. in IoT and Sensor).**

10th & 12th CBSE   *2015 - 2017*
DPS Dwarka, New Delhi
9.4 GPA in **10th** and **88% aggregate** in **12th**.

Professional Experience

Internships

1. IBM-GBS Divison, Bangalore   *Apr'20 - June'20*

As IoT Solution data-architect for a **"Smart-Surveillance"** Project that IBM was implementing for a London HQ'ed Security Services MNC. My role was to (A). Use ETL process to design a Python-based scalable data-transport service for real-time video-feeds of human faces, objects & events like accidents captured at junctions, and fed into the IBM Visual Insights (IVI) Analytics Platform, that relayed all meta-data & video output streams to populate client's front-end Application, Object-Storage and MongoDB, (B). Create an intelligent Services Solution & fault-tolerant architecture using a decentralized SOA and Secure Data-streaming, (C). Come-up with a Solution that included creation of raw datasets, training-&-testing of the surveillance model, and (D). Leverage technologies like Kafka, Kubernetes and Docker etc.

2. Deloitte-IMA Division, Gurugram   *May'19 - July'19*

As an Analyst, my Project **"Buyer Sentiment Analysis"** involved (A).NLP-based analytics as applied to the FMCG Industry,(B). PowerBI as a Data Visualization tool. The clientwas a UK-HQ'ed global FMCG leader whose best-selling soaps-related sales data was extracted from e-commerce sites like Amazon, Flipkart etc.The Project's outcome was to highlight inherent business opportunities for that category of soaps, supported by the results of Analytics applied to the base data.

Microsoft Student Partner Program   *Aug'19 - Present*
VIT's Knowledge Community
As a part of the MSP community, I evangelize Microsoft Azure Cloud Platrof
by conducting workshops for peers & juniors.

Head of University Affairs   *July'17 - July'20*
Computer Society of India-VIT Student Chapter
Led the creative content design team as a Board member of the
Chapter, I mentor my juniors in creative content design and have
been organizing one of South India's biggest annual Tech
Conference **DEVSPACE** for the past 2 years.

Projects

IoTomize
The Project created an end-to-end IoT-based Home Automation
Solution. We used RFID-validation along with data originating from
sensors like DHT-11 to manage motor-controlled action. Project
provided a unified platform to measure, analyze and actuate
physical action. Multiple components like interfaced sensors worked
in tandem with data residing on Azure Cloud and a Dashboard was
created to pull & visualize the same as graphs. It coupled automation
in Data-collection along with Analytics that can also be exploited
to offer greater control in reducing electricity consumption based on
human presence in any corner of home via real-time monitoring and
switching-off of electrical devices viz. lights, fans, AC, TVs, etc.

Smart Parking System
Objective of this Project was to find location of an empty Parking-slot
using a Mobile App. Designed around embedded systems, it
involved interface between Micro-controllers viz. ESP8266 (NodeMCU)
& Atmega16A and allowed for serial communication between them.

Sentiment & Emotion Analysis with Data Visualization
This was emulation over the Deloitte Project done in summer of
2019. It focused on raw data-sets related to public opinion as
expressed on e-commerce platforms w.r.t. mobile phones as the
product in question. Data extraction involved it's cleaning too so as
to be properly analyzed & presented. It was extremely insightful as
it demonstrated that there is much more to Data Science than just
Machine Learning.and Data Pipeline plays a significant part in data
cleaning as a lot of the world's data is 'raw' and needs to be processed
in order to generate workable insights.

Smart Health Monitoring System

Goal: Allow real-time measurement of patient's body vitals e.g. heart pulse-rate, temperature, orientation etc. and set-out an alarm when these parameters violate a pre-defined range. Sensors Used: DHT-11 (temperature & humidity), MPU-6050 (3-dimensional, 6-axis orientation) and Pulse-Sensor (pulse-rate).
Application Suite: Blynk (freeware)
Project involved interfacing sensors with NodeMCU micro-controller, signal extraction and transporting body's vital health parameters/data to the Blynk app in order to detect health emergencies in real-time w.r.t. heat-strokes, arrhythmia, high/low BP and body-balance.

Thoughts & Ideas

I aim to use disruptive technologies like IoT Neural Networks, Machine Vision, NLP and Deep-Learning coupled with
my knowledge of electronics and embedded systems to come up with intelligent IoT-based Solutions for the future.

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