KABIIR KRISHNA

kabiirk.github.io

Seeking a formidable springboard to empower my career that involves researching & designing innovative software-centric strategies that can be deployed to implement large scale, secure & resilient digital infrastructure that forms the backbone for any vital industry sectors

Skills

Python
C++
Javascript
Dart
Assembly

Academics

B.Tech   *2017 - 2021*
Vellore Institute of Technology, Vellore
Successfully completed B.Tech in **Electronics & Comm. Engineering (specialization in IoT & Sensors) with a CGPA of 8.39**.

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

Tools

Kubernetes
Docker
Flutter
Kafka
D3.js
AVR Studio
PowerBI
WxPython
Three.js
Bash
Cmake
Tailwind.css
Photoshop
Illustrator

Professional Experience

Work Experience

1. PwC, Cybersecurity Associate, Gurugram   *Jul'21 - Present*

As part of OneCyber BU, my role is to assist global enterprises in mitigation of their cybersecurity vulnerabilities by taking a data-driven approach to risk measurement, governance, compliance and reporting in order to offer actionable insights to secure their business interests. My accomplishments involve following assignments:

(A). I currently support world's 5th largest Agro-Solutions company in reducing their enterprise-wide cyber risks by designing & implementing strategies to prevent potential data leaks and creating policies-&-protocols of security enhancements related to their internal processes e.g. business communications. My work ensures that my client is compliant w.r.t frameworks & standards like NIST, ISO etc.

(B). For Middle-East's Federal Tax entity, I performed 'As-Is & To-Be' risk assessments for enterprise-wide cybersecurity. My work involved recommending strategies for implementation of digital security w.r.t their IT-infrastructure & business applications.

Internships and Extracurricular Experience

1. IIT-Roorkee, Dept. of Earth Sciences, Roorkee   *Jan'21 - June'21*

Project entailed development of PRIME - a GIS Application for the O&G industry by utilizing well-log data, it's aggregation and perform analytics using Machine Learning. Involved development of Code Editor, GUI, Data Visualization & Representation as graphs. leading to significantly enhanced user experience (UX).

2. IBM-GBS Division, Bangalore   *Apr'20 - June'20*

As IoT Solution data-architect of Smart-Surveillance Project implemented for a London headquartered Security Services MNC, I worked on:

(A). Extract, Transform, Load (ETL) process to design a Python-based scalable data-transport service for real-time video-feeds using IBM Visual Insight (IVI) Analytics Platform,

(B). Leverage Kafka, Kubernetes and Docker to build decentralized & secure data streaming Solution.

(C). Devising a Solution that included creation of raw datasets, training-&- testing of the surveillance model.

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

As an Analyst, my Project "Buyer Sentiment Analysis" - implemented for a global FMCG leader, involved:

(A). NLP-based analytics applied to soap-related sales data extracted from e-commerce sites like Amazon & Flipkart,

(B). PowerBI as a Data Visualization tool,

(C). Project's outcome was to highlight the inherent business opportunities w.r.t. that category of soaps, using results of Python-based Analytics engine applied on the data collected.

4. Microsoft Student Partner, VIT Knowledge Community   *Aug'19 - July'21*

As a part of the MSP community, I evangelized Microsoft Azure Cloud Platform by conducting Workshops for my peers & juniors.

5. Computer Society of India, VIT Student Chapter   *July'17 - July'20*

Led the creative content design team as Board member of the Chapter & Organized one of South India's biggest annual Tech Conference DEVSPACE for the past 2 years.

Projects

EnCrypt - A Password Management Application that Stores User Passwords as Encrypted Strings in a Vault

Developed EnCrypt as a tool, that allows users to store & manage credentials on their desktops rather than on the cloud. These passwords are stored as encrypted Base64 strings in local MySQL instance, which the user can interact via a front-end made with ncurses library.

Sentiment Analysis with LSTM (Long Short-Term Memory) Neural Network for FMCG Products

Project involved scraping raw customer reviews from Amazon.com; Pre-processing them to create 2 datasets - both used for training and testing the LSTM neural network designed by me. Project's major business outcome was an Expert System that not only accurately quantifies customer sentiments as sourced from any e-commerce website, but also creates cogent graphical Analytical Reports.

Smart Health Monitoring System of Patient's Body Vitals – Realtime Measurement & Alarm

Project involved monitoring heart-pulse rate, temperature, body-balance and sets-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 Used: Blynk.

Smart Parking – Locate an Empty Parking Slot Using a Mobile App

Designed around embedded systems, Project involved interface between Micro-controllers ESP8266 (NodeMCU) and Atmega16A that allowed serial communication between them.

Certifications

ISO 27001:2013 Lead Implementer   *2021*

Microsoft Student Partner (Beta Level)   *2020*

+91 99580 56805   krishnakabiir2022@gmail.com   Kabiirk   Kabiir Krishna   New Delhi