Shaurya Purwar

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EDUCATION

B.Tech Electronics And Communication Engineering   Ghaziabad, UP | Jun 2023
Ajay Kumar Garg Engineering College
ECE Coursework : Digital Communication; Microprocessor and Microcontroller; Control System
Programming Coursework : Data Structures and Algorithms; Basics of DBMS
Intermediate   Etawah, UP | Mar, 2018
St. Mary's Inter College

CERTIFICATIONS

PYTHON DATA ANALYSIS AND VISUALIZATION ⬈   Numpy, Pandas, Matplotlib
Gained the ability to analyze and visualize data with Python using an assortment of powerful libraries.

INTRODUCTION TO IOT ⬈   Arduino, Raspberry Pi, Communication Protocols
IoT cuts across different application domain verticals ranging from civilian to defence sectors. This course helped me to learn the fundamentals of this emerging technology.

OBJECT-ORIENTED PROGRAMMING IN PYTHON ⬈   Class, Object, Inheritance
Learned to write cleaner, more modular, and more scaleable code in Python by gaining a master of Object Oriented Programming (OOP).

PROJECTS

BLOCKCHAIN USING PYTHON ⬈   OOPs, hashlib

- Implemented simple Blockchain system written in Python.
- Used our Blockchain with pre-established transactions represented as strings.
- Tested the immutability of our Blockchain.

AUTOMATIC BIRTHDAY WISHER ⬈   pandas, datetime, requests

- Python project to send automatic birthday wish to saved contact on his/her birthday.
- Program automatically checks for birthday at startup and sends birthday wishes to person's email, via sms etc.
- Integrated ToastNotifier from win10toast library to show desktop notifications once the e-mail and SMS has been sent successfully.

HOME SECURITY SYSTEM ⬈   Raspberry Pi, Ultrasonic Sensor

- Built a basic security system using only Python, the Camera module and an Ultrasonic Sensor.
- Used motion sensor, so that Pi only capture images when there's something going on.
- Pi sends an email containing a link to a nominated address everytime it detects motion.

COVID19 DASHBOARD ⬈   numpy, pandas

- Analysed India's covid-19 situation using python.
- Used a CSV file from the 'Our World in Data' website to carry out this analysis.
- Integrated to visualize GDP per capita, Life Expectancy, Hospital Beds per Thousand etc.

SKILLS

Languages: Python, SQL
Technologies: Git, Linux, Photoshop, Arduino