Ayush Gupta

Student

19 December, 2000

Agra, Uttar Pradesh, INDIA

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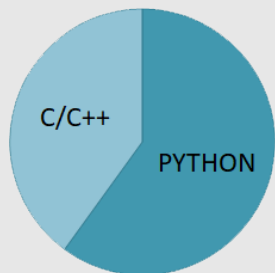
github.com/ag5613

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Programming

C/C++

PYTHON

Modules

OpenCV
Tesseract
tkinter
PyTorch
Matplotlib
scikit-Learn
NumPy

Softwares

Arduino IDE
MySQL
LaTeX
Microsoft Excel
Microsoft Word
Microsoft Viso
Photoshop

Soft Skills

Adaptable
Hardworking
Fast Learner
Positive Attitude
Social Interaction
Team Work
Effective-Communication

Education

2018-2021	Bachelor of Vocation (B.Voc.) in Robotics and Artificial Intelligence CGPA: 9.05/10 *Dayalbagh Educational Institute, Agra*
2017-2018	AISSCE, Percentage : 86% *Assisi Convent School, Etah*
2015-2016	AISSE, CGPA:9.6/10 *Assisi Convent School, Etah*

Interests

Robotics, Automation, Machine Learning, Computer Vision, Artificial Inteligence, Arduino.

Awards and Achievements

- Secured *Rank-6692th* in *Google Hash Code-2020* Online Qualification Round
- Secured *School Rank - 1* and *Zonal Rank 51* in *National Computer Olympiad (NCO) -2017* organised by SOF World

Course Subjects

Machine Learning, Database Management System, Data Structures in Python, Programming in Python, Microprocessors & Microcon- trollers,	Digital Image Processing, Operating System, Robotics, Data Visualisation, Introduction to Artificial Intelli- gence

Projects

Minor Project (Graduation Subject)

- **RRP Configuration based manipulator**

  Sep 2019 – Dec 2019

  RRP Configuration based Robotic Manipulator for Drawing application.The manipulator was a 3-DOF planar manipulator and was able to draw basic shapes.It uses a Arduino microcontroller and three servo motors for providing joint actuation.

- **Gesture Controlled Robotic car with Robotic Arm**

  Feb 2019 – May 2019

  Hand Gesture controlled robotic car with embedded robotic arm. It comprises of two modules, one is the car and other is the robotic arm. The movements of the car and that of Arm was controlled by the gestures of the hand. The gestures of the hands was recognized via flex sensors and sent to the receiver module. The main components of the project was Arduino, Flex Sensor, IR transmitter and Receiver module, Robotic Arm, Robotic Car

- **Smart Street-light System**

  Sep 2018 – Dec 2018

  A Project to demonstrate the energy saving model by turning ON the lights only when it is needed. The working of the system was that the highway streetlight will be turned ON only when the vehicle comes. It uses different sensors to detect the vehicle and the microcontroller sends the signal to Turn ON subsequent lights.

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Personal Projects

- **Face-Recognition based Attendance System**

  Oct 2019 – Nov 2019

  Project programmed in Python Programming language which Detects and recognize people from a live video and mark them present in that particular lecture. The dataset used in this project was the photos of the classmates and were trained in the model for face recognition.

  Accuracy : 92%

- **Arduino Based Environment Thermometer**

  Sep 2019

  Arduino Based Environment Thermometer which senses the Temperature and Humidity of the surrounding environment. It uses a Arduino Microcontroller, DHT-11 Temperature and Humidity Sensor to sense the temperature and humidity and a 16X2 LCD display to show the output to the user.

Training/Certification

- Attended *"Robotics Workshop"* organized by *Robolab Technologies* in *Dayalbagh Educational Institute, Agra* and acquired adequate knowledge on PLC (Programmable Logic Controller), Actuators, Control System,Drive System, Pistons (Pneumatic Actuator), Quadcopter, Robotic Arm and other Robots.

- NPTEL Online Certification on *"Fuzzy Logics and Neural Network"*

Seminar/Paper Presentations

- Presented a paper on *"A Comparison of Face Recognition Algorithms and developing a novel system for automated Attendance"* in Paritantra 2019 Conference

- Presented a seminar on *"Data Tampering: Cookies, URL and POST data"* in B.Voc. 3rd sem.

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