

# Aryan Gupta

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## EDUCATION

### PSIT

#### BACHELOR OF TECHNOLOGY

Major : Computer Science and Engineering

June 2018 - 2022 | Kanpur, Uttar Pradesh

### MTMHSS

#### HSC + SSC

April 2018 | Kanpur, Uttar Pradesh

SSC : 88 / 100

HSC: 86.8 / 100

## COURSEWORK

### UNDERGRADUATE

Programming for Problem Solving

Data Structure

Computer Organization and Architecture

Python Programming

Operating Systems

Theory of Automata and Formal Languages

Technical Communication

## SKILLS

### PROGRAMMING

Over 5000 lines:

Java • Python • Javascript

C • C++ • HTML • CSS

Bootstrap

Over 1000 lines:

PHP • SQL • MongoDB

Express.js • Node.js • React.js

Familiar:

Android • Git

### SOFT SKILLS

Technical Communication

Teamwork

Agile (Scrum)

Languages:

English • Hindi

## PUBLICATIONS

- Articles on overclocking and fixing common windows errors / driver issues
- Articles on rooting Android devices, flashing new kernel/rom/firmware and much more.

## PROJECTS

### A\* PATHFINDING VISUALIZER | PYTHON

Jul 2020 – Jul 2020 | Kanpur, Uttar Pradesh

- Built Python application for visualizing A\* pathfinding algorithm.
- Used Pygame module for animation and maze generation.

### TRAIN AI TO PLAY FLAPPY BIRD | PYTHON

Jul 2020 – Jul 2020 | Kanpur, Uttar Pradesh

- Used NeuroEvolution of Augmenting Topologies to train agent to play Flappy Bird game.
- Used Pygame module for recreating the Flappy bird game and animating the environment.

### PENETRATION TESTING TOOLKIT | PYTHON

Mar 2020 – Jun 2020 | Kanpur, Uttar Pradesh

- Used Scapy to create a collection of Penetration Testing tools.
- Used a variety of python modules to create payloads for different Operating Systems.

### OBJECT / TEXT RECOGNIZING CAMERA APPLICATION | PYTHON

Sept 2019 – Nov 2019 | Kanpur, Uttar Pradesh

- Used Tensorflow python module and (YOLO) pretrained dataset to recognize daily life objects.
- Used Pytesseract for Optical Character Recognition.
- Used pyttsx3 for text to speech functionality to aid blind people.
- Used kivy python module to develop the gui so that it can easily be ported to Android.

### Other Projects

- Facematch : A clone of Mark Zuckerberg's facemash website.
- TicTacToe : An Android clone of the tictactoe game.

## EXPERIENCE

### PYTHON DEVELOPER | FREELANCE

Jan 2019 - Present | Kanpur, Uttar Pradesh

- Modified existing software to correct coding errors, upgrade interfaces and improve overall performance.
- Implemented simple machine learning algorithms (Linear Regression and Support Vector Machines) to analyze and predict stock performance.

### WEB DEVELOPER | FREELANCE

Jan 2018 - Present | Kanpur, Uttar Pradesh

- Designed and created UI's to implement pre-existing back-end functionality using CSS, Bootstrap, JQuery and Javascript.

## CERTIFICATIONS

AWS Fundamentals Specialization • Google IT Automation with Python • Data Structures and Algorithms Specialization • IT Fundamentals for Cybersecurity