

# Aryan Gupta

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## EDUCATION

### PSIT

**BACHELOR OF TECHNOLOGY**  
Major : Computer Science and Engineering  
Jun 2018 - 2022 | Kanpur, Uttar Pradesh

### MTMHSS

**HSC + SSC**  
Apr 2007 - 2018 | Kanpur, Uttar Pradesh  
SSC : 88 %  
HSC: 86.8 %

## 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.
- 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 • Google IT Support • Data Structures and Algorithms Specialization • IT Fundamentals for Cybersecurity