

# AMAN GUPTA

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## PROFESSIONAL SUMMARY

I'm a young software developer with a keen interest in learning and implementing new ideas. I'm very passionate about my work and would like to work on something which would make the world a better place.

### CERTIFICATIONS:

Microsoft Technology Associate(MTA) Certified in Python

Machine Learning by Georgia Tech

Hands-on Machine Learning with Python and R by SuperDataScience

Machine Learning with Python by Cognitive.ai

Bluemix Essentials by IBM

Blockchain Essentials by IBM and Cognitive.ai

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## EXPERIENCE

### DATA SCIENCE INTERN

FOXMULA // BENGALURU, INDIA // DECEMBER 2018 - MARCH 2019

I was responsible for implementing a MNIST Digit Recogniser using Keras, whose trained model was later used in a handheld device to transfer data written on paper to it's electronic form.

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## PROJECTS

### HOMIE

Jun 2019 - Present

[github.com/bolleyboll/HomIE](https://github.com/bolleyboll/HomIE)

This is an RPi implementation of a multi-purpose home system which would serve as a Home Server, a Password Vault and more.

### HYDROCARBON EXPLORATION USING SEISMIC IMAGING

Jun 2018- Apr 2019

[github.com/bolleyboll/Hydrocarbon-Exploration-using-Seismic-Imaging](https://github.com/bolleyboll/Hydrocarbon-Exploration-using-Seismic-Imaging)

Seismic-data interpretation has as it's main goal the identification of compartments, faults, fault sealing, and trapping mechanism that hold hydrocarbons. Our solution to the problem is to use U-Nets. Each pixel in the image is checked for the presence of salt and further on this is how the proportion of salt in that seismic image is calculated. Our model boasts an accuracy of 94.7%.

### IMAGEGAN

Jun 2019 - Present

[github.com/bolleyboll/ImageGAN](https://github.com/bolleyboll/ImageGAN)

This is my implementation of a GAN, trained over a set of images of animals and goes on to generate a completely new one.

### INNEED

Jul 2018 - Aug 2018

[github.com/bolleyboll/iNNeed](https://github.com/bolleyboll/iNNeed)

A CRM website where customers and manufacturers meet.

This project includes most modern security features with e-mail support and support for salt and hash facilities for password protection. Built using Python Flask.

### STYLE TRANSFER

Jul 2018 - Dec 2018

[github.com/bolleyboll/Style-Transfer](https://github.com/bolleyboll/Style-Transfer)

This is an imitation of Google's Deepdream where I try to transfer the styles of one image to another using a using PyTorch.

### MNIST DIGIT RECOGNITION

Jan 2019 - Feb 2019

[github.com/bolleyboll/MNIST-Digit-Recognition](https://github.com/bolleyboll/MNIST-Digit-Recognition)

Here, we settled on a VGG-19 network which was implemented using Keras. The neural network was trained over the MNIST Dataset and we were able to achieve an accuracy of 98.9%.

## BLOG

Jul 2018 - Aug 2018

[github.com/bolleyboll/Blog](https://github.com/bolleyboll/Blog)

A blogging website where one can publish one's thoughts for the whole world to see. This project includes most modern security features with email support and support for salt and hash facilities for password protection, it was built using Python Flask Framework.

## ANALYSIS OF 911 CALLS

Aug 2017 - Sep 2017

An analysis of 911 calls, categorizing them into separate classes and finally prediction of the reason for the call to 911. Built using ML libraries in Python such as Numpy, Matplotlib, Scikit Learn and Pandas.

## SIMULATION OF DIJKSTRA'S ALGORITHM

Aug 2017 - Dec 2017

[github.com/bolleyboll/Simulaton-Of-Dijkstras-Algorithm](https://github.com/bolleyboll/Simulaton-Of-Dijkstras-Algorithm)

A simulation of how the Dijkstra's Algorithm works in a network of 5 nodes using OpenGL and GLUT.

## RPI3 DEBLOATING SCRIPTS

Mar 2018 - Mar 2018

[github.com/bolleyboll/RPI3](https://github.com/bolleyboll/RPI3)

A set of shell scripts to debloat your RPI3 unlocking its maximum potential. Also can be used to install OpenCV 3 as the build process is cumbersome for RPI, essentially a run it and forget it tool.

## CLUB MANAGEMENT SYSTEM

Mar 2017 - May 2017

[github.com/bolleyboll/Club-Management-System](https://github.com/bolleyboll/Club-Management-System)

A management system for all of the different clubs in an institution. Built using Java Swings.

## SYLLABUS MANAGEMENT SYSTEM

Sep 2016 - Dec 2016

A Management System for different departments all under one roof, with easy updation facilities and much more. Built using Java Swings.

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## EDUCATION

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### BACHELOR OF TECHNOLOGY(CSE)

VISVESVARAYA TECHNOLOGICAL UNIVERSITY // BENGALURU, IN // 2019 // 7.52 GPA

### XII (ISC)

ST. THOMAS' CHURCH SCHOOL // KOLKATA, IN // 2015 // 88% GPA

### X (ICSE)

ST. THOMAS' CHURCH SCHOOL // KOLKATA, IN // 2013 // 87% GPA

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## SKILLS

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PYTHON // C // DEEP LEARNING // JAVA // R PROGRAMMING // MACHINE LEARNING // C++ // JAVASCRIPT // NODE.JS // GAN // HTML5 // MYSQL // SQL // SQLITE // CSS // BOOTSTRAP