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

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.

PROJECTS

HOMIE
Jun 2019 - Present
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
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
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
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
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
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

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
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
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
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.

EDUCATION

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

SKILLS

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