Aryan Jain

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Areas Of Interest

Android Development | Web Development | Data Science | Machine Learning | Computer Vision | Reinforcement Learning | Deep Learning

Skills

DATA SCIENCE | ML CONCEPTS

Statistical Modelling | Classification Algorithms | Neural Networks | Deep learning | Object Detection | Basics of Genetic Algorithms

PROGRAMMING

Python | Java | Android Programming C | C++ | HTML | JavaScript | CSS | Node.js | Express.js | SQL | MongoDB

IT CONCEPTS

Data Structures and Algorithms | Object-Oriented Programming | Cloud Computing | Database Management Systems

SOFTWARE AND TOOLS

Pandas | Numpy | Matplotlib | Scikit-Learn | Tensorflow | Keras | MS Excel | Linux | Windows | Git and GitHub

Education

BACHELOR OF ENGINEERING (INFORMATION TECHNOLOGY) *(current)*
- I Year : 8.42 CGPA
- II Year : 8.00 CGPA
- III Year : 7.96 CGPA

HSC (12th Grade) : 77.6%   *(2016 Maths-Science Stream)*

Experience

INTERN – BACK END DEVELOPER | WOLFFKRAFT DESIGN STUDIO, PUNE

(December 2019 – March 2020)
Worked as a back end web developer to assist in building company's two major project. Worked on various mean stack technologies like node.js, mongodb, express.js. Also gained experience on different cloud platforms like AWS, mongodb-Atlas, GoogleCloud.

Projects

Indian Roads - Object Detection using Android : An android application that detects objects that are usually found on Indian roads. I used the TF-Lite model in this application and downloaded image categories from COCO dataset. Link
Tools Used : Python, Tensorflow, Keras, Pygame, Numpy, Matplotlib, etc.

Image Caption Generator : Trained a model architecture comprising of CNN+RNN, studied and applied concepts of LSTM and GRU. Basically the model generates the caption of the activity occuring in image. Link
Tools Used : Python, Tensorflow, Keras, Tkinter, VGG16, Xception, etc.

CIFAR-10 Image Classification with 90% accuracy : Managed to get 90% model accuracy on CIFAR-10 dataset where highest accuracy ever recorded is 96% using regular CNN architecture. Link
Tools Used : Python, Tensorflow, Keras, Pygame, Numpy, Matplotlib, etc.

Digit Recognization : Created a GUI application that predicts the digit drawn over it. Used regular-NN instead of CNN, as I wanted to test it's prediction over CNN. Managed to get an accuracy of 93%. Link
Tools Used : Python, Tensorflow, Keras, Tkinter, Numpy, Matplotlib, etc.

Live location tracing Android App (Android) : A simple app that tracks the real time location of the people who are using it and displays it over map. App uses Google Firebase and Google maps api key for the access of maps. Link
Tools Used : JAVA, Google Firebase, Google Maps API, etc.

Flappy Bird Game using Genetic Algorithm (NEAT) : Studied and applied concepts of Genetic algorithm – NEAT and applied it over a popular game Flappy Bird. This turned out as an interesting project where the program learnt itself to play the game and maintain the highest score. Link
Tools Used : Python, Pygame, NEAT, etc.

Blogs

R-CNN, Fast R-CNN, Faster R-CNN: Computer vision is an interdisciplinary field that has been gaining huge amounts of traction in the recent years(since CNN) and self-driving cars have taken centre stage. Another integral part of … Link

Convolution Neural Network (CNN) : Artificial Intelligence has been witnessing a monumental growth in bridging the gap between the capabilities … Link

Certifications & Achievements

- Under 3000 ranking in Python section in Hackerrank (as of 12/04/2020).
- Gold Badge in Algorithm section in Hackerrank.
- **Certificate** : DeepLearning.ai | Tensorflow Specialization Link
- **Certificate** : DeepLearning.ai | Deep Learning Specialization Link
- **Certificate** : IBM | Python for Data Science Link
- **Certificate** : Core JAVA & C++ | Seed Infotech, Pune.

Extra- Curricular

- Volunteer for "Animal Care" foundation organised by local groups.
- Event Coordinator for college tech-fest in year 2018.
- Member of "Save Planet" campaign.