Aryan Jain

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Areas Of Interest

Data Science | Machine Learning | Computer Vision | Sequence Modeling | 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

Operating System Concepts | Data Structures and Algorithms | Object-Oriented Programming | Cloud Computing | Database Management Systems | Data Mining Design and analysis of algorithms

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

HSC (12th Grade) : 77.6%   *(2016)*

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.

Movie Review Prediction (Sentiment Analysis) : Studied concepts of RNN and LSTM, and trained a model to predict the sentiments behind a movie review. It is my beginner's project towards RNN, LSTM and GRU. 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.

Live location tracing Android App : Created an android app that tracks real-time location of users that are online. The app useGoogle Firebase for it's data storage and Google maps. User has to register oneself in order to use it.
Tools Used : JAVA, Google Firebase, Google Maps API, etc. Link

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.
- Under 3000 ranking in Algorithm section in Hackerrank.
- **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.