Sahil Aggarwal

https://www.linkedin.com/in/sahil-aggarwal-61a60b16b/sahil.ee17@iitp.ac.in | +91-9523264162

EDUCATION

INDIAN INSTITUTE OF TECHNOLOGY PATNA

B.TECH IN ELECTRICAL ENGINEERING

July 2017- Present GPA: 7.67/10.0

TAGORE ACADEMY PUBLIC SCHOOL

2004-2017 | Faridabad, Haryana XII Percentage : 92.2% CLASS 10th CGPA : 9.8/10.0

LINKS

Github://sahilee26 Codeforces://gs_sahilagg Codechef://witwicky26 Wordpress://sahil-aggarwal

COURSEWORK

UNDERGRADUATE

Mathematics

Linear Algebra, Two Variable Calculus, Probability and Statistics Electrical Engineering (Major) Signal and Systems Communication Sytems Computer Science (Minor) Programming and Data structures Intro to Data Science Python Programming

SKILLS

PROGRAMMING

- Algorithms Data Structures
- Machine Learning Deep Learning
- Backend Web Development

CODING

Languages

- C C++ Python SQL HTML+CSS
- Javascript Golang

Tools and Frameworks

• Unix • Github • Keras • Tensorflow

MOOCS/ CERTIFICATES

COURSERA

• Deep Learning Specialisation, Machine Learning By Andrew Ng, • Algorithms Specialisation By Stanford

PROJECTS

IMDB MOVIE REVIEWS SENTIMENT ANALYSIS

Jan 2019 - March 2019 | Under Dr. Joydeep Chandra

- Obtained feature vector of words using Bag of Words model with Countvectorizer predicting sentiments using Random Forest classifier.
- Utilised Word2Vec model and implemented Bidirectional LSTM improving F1 Score to 0.91 on test data.

DISTRACTED DRIVER DETECTION

April-May 2020 | Design Lab

- Employed VGG-16 network and trained it on extra layers to predict what each driver is doing in each of the pictures.
- Also tuned the parameters, trained it on all layers in 10 classes and built XceptionNet model minimising cost using SGD optimizer achieving an accuracy of 83.5%.

NEURAL STYLE TRANSFER | TRANSFER LEARNING

Aug 2019 - Sept 2019

- Employed VGG-19 network generating an image of museum (content image), mixed with a painting (style image).
- Implemented content cost function using activations and style cost function using Gram matrix and used Adam optimizer minimizing cost function.

STOCK PRICE PREDICTION

Jan 2020

Worked on Vanguard Total Stock Market Index Fund ETF Shares dataset.
Employed machine learning algorithms suc as Linear Regression and LSTM comparing their performance.

ACHIEVEMENTS

COMPETITIVE PROGRAMMING

- Secured a global rank of 281 out of 20,000 participants in August Codechef Long Challenge 2019
- Secured a global rank of 779 in Google Kickstart 2019 Round G
- Codechef Highest Rating: 1789 @witwicky26
- Codeforces Highest Rating: 1408 (Specialist) @gs_sahilagg
- Solved more than 500+ problems on various sites like Codechef, Codeforces, Hackerrank, UVA, InterviewBit

JEE ADVANCED

• Secured 95.33 percentile out of 1,50,000 candidates in JEE Advanced 2017

OLYMPIADS

• Secured 8th State rank in 2nd Level National Science Olympiad (NSO)

POSITION OF RESPONSIBILITIES

TASK MANAGER | E-CELL IITP (Events Subcord)

• Organised IPL Auction in Celesta 2k18 and Startup Master Classes (IITK Ass.)

PROJECT MENTOR | DSC-IITP

 Machine Learning and Al Society of IITP-Mentoring students in field of ML and Artificial Intelligence