Harshit Agrawal

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EDUCATION

NIT, TRICHY - B.TECH

MAJOR IN COMPUTER SCIENCE

MINOR IN ECONOMICS

Expected May 2022 | Trichy, India

Cum. GPA: 9.58/10.00

K D AMBANI VIDYAMANDIR

Grad. May 2018 | Jamnagar, India

Class 12: 94.8 % Class 10: 10 CGPA

LINKS

GitHub: @HarshitCodex LinkedIn: @HarshitAgrawal Codechef: @codexharsh Codeforces: @codexharsh Hackerrank: @HELICpros Medium: @HarshitAgrawal

COURSEWORK

UNDERGRADUATE

Deep Learning
Cryptography
Machine Learning
Algorithms & Data Structures
Operating Systems
Computer Networks
Android AppDev
Theory of Computation
Database Management Systems
Probability & Graph Theory

CERTIFICATIONS | ONLINE

Machine Learning
Deep Learning Specialization
WebDev(Ongoing)
Python(Ongoing)

SKILLS

PROGRAMMING LANGUAGES

•C •C++ • Java • Javascript • Python

FAMILIAR TOOLS & TECH

- •Android Dev •Web Dev •ML
- •Scraping •Matlab •Keras •Pytorch
- •Scikit •Git •Scripts

LANGUAGES

• English • Hindi

Co Curricular

- NIT Trichy Basketball Team 2018-19
- Jamnagar Basketball Team 2016-17
- District Cricket Team 2016-17
- CBSE Heritage Quiz 2016

EXPERIENCE

SPIDER R&D CLUB | ALGORITHMS AND MACHINE LEARNING

August 2019 - Present | NIT Trichy, India

- Worked on Enhanced Night Vision prototype using Deep Learning
- Conducted Algorithms workshop for over 100 college students
- Headed and worked as problem setter for various Coding Contests
- Participated in ICPC-2019 Online Round with team ApPy Fuzz
- Represented the club at many hackathons with a dynamic team of students

VORTEX CSE TECHNICAL FEST | EVENT MANAGER

September 2019 - Present | NIT Trichy, India

- Part of versatile team of managers and computer science enthusiasts
- Ideated and organised various coding based events round the year for Vortex Technical Fest, including online events from home
- Judged and worked as a problem setter for Talkathon, Triathalon, ML and Coding Events

PROJECTS

DARKSIGHT | Github : DarkSight | SANGAM PROJECT

December 2019 - March 2021

- Worked on improving night-vision cameras
- Used Histogram Equalization and U-Net Deep Learning framework
- Worked with python libraries and automated few processes
- Used Samba server to ssh from Windows 10 to Raspberry Pi

TAKEASTAND.ORG | Github : TakeAStand

January 2021 – January 2021

- Created a mini social media website to host and join protests
- Worked with MEN stack with HTML,CSS and JS for frontend
- Added Maps API for instant location service

STOCK ANALYSIS | Github : ARIMA-NLP | STOCK SENTIMENT

September 2020 - November 2020

- Worked on ARIMA model to map Google S&P500 stock price
- Used log differencing and normal differencing to get stationary data
- Scraped stock related news using web scraping techniques in python
- Used NLP techniques with VADER lexicon to generate sentiment score of stock

SAFE LANES | Github : Safe Lanes | Pragyan Hackathon 19

December 2019 - December 2019

- Identified safest route between two points by ML algorithm
- Generated Crime score of each street through Crime dataset
- Used Random Forest Classifier as ensembling algorithm to predict crime

HANDGUN DETECTOR | Github : YOLO Guns

June 2019 - August 2019

- Detection and drawing of bounding boxes whenever Handguns are found
- Worked to design YOLOv3 architecture using Darknet54 framework
- Used Convolutional Neural Networks and FPN with RPN

ACHIEVEMENTS

2021	Rank 1 (CSE)	S.J. Chainulu Endorsement Award for Excellence
2020	Selected	SRFP Fellowship(IIT-M Computer Vision)
2020	Top 15%	Transfinitte Hackathon
2020	Top 10%	Hackverse(NITK) Hackathon
2019	2nd Prize	Pragyan Hackathon 2019
2018	AIR 1024	KVPY Fellow (Issued by IISc Bangalore)