Harshit Agrawal

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EDUCATION

NIT, TRICHY - B.TECH
Major in Computer Science
Minor in Economics
May 2022 | Trichy, India
CGPA: 9.52/10.00 (Bronze Medallist)

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

SKILLS

Programming Languages
•C •C++ •Java •Javascript •Python

Familiar Tools & Tech
•Android Dev •Web Dev •ML
•Matlab •Keras •Pytorch •Scikit •Git
•Scripts •React •Flume •Guice

Languages
• English • Hindi

PUBLICATIONS

ICICC-NOVEMBER, 2021
K-Weighted Cluster Head Selection in Wireless Sensor Networks

EXPERIENCE

GOOGLE INDIA | SWE II | L3
July 2022 - Present | Bangalore, India
- Working with the Google Workspace Insights team to provide fast and accurate metrics of workspace applications to customers through Admin Console.
- Working on creating RPCs, handling databases ingesting millions of rows, testing frameworks and using various parallel programming concepts.

URVAR | SWE Internship | Startup
September 2021 - March 2022 | Remote
- Worked on their Android application from scratch mainly focusing on the Frontend using Jetpack Compose with Kotlin.
- Contributed to data collection using Python web scraping and worked on a few small backend features using Golang. Overall coordinated with the team for product development and discussions.

MICROSOFT INDIA (R&D) | SWE Internship
June 2021 - July 2021 | Noida, India
- Worked with special clouds team to create an automated interface for identifying and assigning builds to deployment rings by following certain policy framework using C#, REST APIs and .NET Core along with deployment process.
- Worked on Azure cloud ecosystem using PowerShell and Azure CLI for containerised systems with an overview of Docker and Kubernetes.

SPIDER R&D CLUB | HEAD - Algorithms
August 2019 - May 2022 | NIT Trichy, India
- Headed the team and worked in the domain of competitive programming
- Conducted Algorithms workshop for over 120 college students
- Worked on Enhanced Night Vision prototype using Deep Learning

PROJECTS

MULTILINGUAL SENTIMENT ANALYSIS | Thesis : FYP | NLP Project
December 2021 – May 2022
- Worked on improving multilingual sentiment analysis for Indian Languages
- Used BERT, LSTM and n-gram models to compare the results
- Attempted to create word embeddings by using pretrained language embedding models like fastText

DARKSIGHT | Github : DarkSight | Sangam Project
December 2019 – March 2021
- Worked on improving night-vision cameras
- Used Histogram Equalization and U-Net Deep Learning framework

STOCK ANALYSIS | Github : ARIMA-NLP | Stock Sentiment
September 2020 – November 2020
- Worked on ARIMA model to map Google S&P500 stock price
- 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

ACHIEVEMENTS

2021	**Winner**	Sangam Hackathon (Defence Tech.)
2021	**Rank 1 (CSE)**	S.J. Chainulu Endorsement Award for Excellence
2020	**Selected**	SRFP Fellowship(IIT-M Computer Vision)
2019	**2nd Prize**	Pragyan Hackathon 2019