

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 • Kotlin

• Python

FAMILIAR TOOLS & TECH

• Android Dev • FullStack Dev • ML

• Matlab • Keras • Pytorch • Scikit • Git

• Scripts • React • Flume • Guice • SQL

LANGUAGES

• English • Hindi

PUBLICATIONS

ICICC-NOVEMBER, 2021

[K-Weighted Cluster Head Selection in Wireless Sensor Networks](#)

EXPERIENCE

GOOGLE INDIA | WORKSPACE PLATFORM | SWE III | L4

July 2022 - Present | Bangalore, India

- Working with the Business Insights Platform team to provide fast and accurate metrics of workspace applications to customers through Admin Console.
- Created a new infrastructure for scheduling and computing 20+ metrics for more than 400K customers and serving them on the UI with minimal latency over a 12PB+ storage system on BigQuery.
- Improved the serving time by 75% and reduced duplicate logs by >99.5% along with delivering resource savings of >1.5 SWE years with the new infrastructure design.
- Improve Sign-In logs discoverability and robustness by implementing infrastructure for additional 30+ sign-in types to be recorded and served to customer across multiple endpoints.
- Designed and implemented multiple ultra-parallel flumes to perform data integrity validations and data comparisons across multiple databases with extremely fast computation and minimal time complexity.

URVAR | SWE INTERNSHIP | STARTUP

September 2021 - March 2022 | Remote

- Created a marketplace cum social media Android application with Jetpack Compose based frontend using Kotlin and Golang based backend server infrastructure hosted on AWS.
- Contributed to data collection using Python web scraping and coordinated with the team for product development and discussions with go-to-market strategy

SAMSUNG PRISM | ML INTERNSHIP

August 2019 - May 2022 | NIT Trichy, India

- Worked on Hierarchical Topic labeling by Active learning to create fine grained multi-label app classification for playstore apps.
- Used various ML techniques like BERT for topic modeling, LDA for finding topics, etc. to come up with a hierarchical label classification.

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.

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.

TAKEASTAND.ORG | [Github : TakeAStand](#) | SOCIAL MEDIA WEBSITE

January 2021 - January 2021

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

AWARDS

Google

Google

AI Hack - Google

NIT Trichy

Spot Recognition

Peer Recognition

WINNER

Gold Medal

7 Times

8 Times

LLM Filter Generator for Search

SJ Chainulu Excellence Award(Rank 1 Acad)