

Harshit Agrawal

harshit.agrawal.work@gmail.com | [harshitcodex.github.io](https://github.com/harshitcodex) | [LinkedIn](#) | Bangalore, India | +91 7016004637

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](#)

PUBLICATION

ICICC-NOVEMBER, 2021

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

COURSEWORK

UNDERGRADUATE

Theory of Computation

Database Management Systems

Probability & Graph Theory

Algorithms & Data Structures

Operating Systems

Computer Networks

Android AppDev

Deep Learning

Cryptography

Machine Learning

CERTIFICATIONS | ONLINE

[Machine Learning](#)

[Deep Learning Specialization](#)

SKILLS

PROGRAMMING LANGUAGES

• Java • C++ • Python • C • C#

• Javascript • Kotlin

FAMILIAR TOOLS & TECH

• BigQuery • Spanner • Flume • Guice

• gRPC • SQL • .NET • REST APIs

• React • Android Dev • FullStack Dev

• ML • Matlab • Keras • Pytorch • Scikit

• Git • Scripts

LANGUAGES

• English • Hindi

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 **35+ metrics** for **400K+ customers** and serving them on the UI with **<150ms P90 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 served to customers across multiple endpoints.
- Designed highly parallel **large scale data processing flumes** to efficiently read and perform **data integrity** validations and data comparisons across **5000+ BigQuery tables** having Petabyte storage.
- Integrated compliant and **automated resource scaling** service in **>35 servers**.

URVAR | SWE INTERNSHIP | STARTUP

September 2021 - March 2022 | Remote

- Worked on a marketplace cum social media Android app with **10k early users**.
- Created **Jetpack Compose** based frontend using **Kotlin** and used **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 over **5 levels** for **>70K** playstore apps.
- Used various ML techniques like **BERT** for topic modeling, **LDA** for finding right topics.

MICROSOFT INDIA (R&D) | SWE INTERNSHIP

June 2021 - July 2021 | Noida, India

- Created an **automated interface** for identifying and assigning builds to deployment rings by following policy frameworks in **Special Clouds Team**.
- Evaluated the use of **Azure cloud ecosystem** using PowerShell and Azure CLI for containerised systems with a small overview of **Docker** and **Kubernetes**.

PROJECTS

PROJECT EEVEE | AI Hack | AI FILTERS FOR LOG SEARCH

August 2023

- Developed an **AI-powered** smart event log search feature for Admin Console, utilizing an LLM to enhance event log filtering.
- Engineered a **full-stack solution** to seamlessly integrate the LLM model.
- Designed and implemented the AI model to translate **natural language user queries** into structured protos, dynamically populating search filters.
- Adjudged as **winner** out of **40+ projects** presented in the hackathon.

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.
- Created word embeddings using pretrained embedding models like **fastText**.

AWARDS

Google

Google

AI Hack - Google

NIT Trichy

Spot Recognition

Peer Recognition

WINNER

Gold Medal (2019)

7 Times

8 Times

LLM Filter Generator for Search

SJ Chainulu Excellence Award (Rank 1 Acad)