

HARSHIT GUPTA

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EXPERIENCE

Google, India: Search Platforms : Software Engineer

Feb 2022 – Present

- Used multimedia content available on a document (videos, images) and generated signals to perform better identification and scoring for the topics on that page using large language models, solved 20% cases for wrong image mapping.
- Worked on using text on travel videos without description to tag the places, improving coverage by 60%.
- Improved coverage for event annotations on new pages from 90% to 95%.
- Working on improving and optimising data generation pipelines for training and re-training various LLM models.

Microsoft, India: Surface Apps and Experiences : Software Engineer

July 2020 - Feb 2022

- Starting from scratch, enabled cross-device communication between devices over cloud to show real-time information of all devices connected to User's account.
- Designed, developed and deployed a cloud service (REST) that enables users to know the information and current state of their other devices.
- The APIs in cloud service have more than 10 million active users and are able to handle over 5000 requests per second in the initial stage.

IBM Research, Bangalore, India: Research Intern

Mar 2020 - May 2020

- Worked on detecting anomalies and explaining the anomalies.
- Used SHAP, Anchors, Gradients to explain anomalies treating the detection system as black-box.

EDUCATION

Indian Institute of Technology(IIT), Kanpur

June 2020

M.Tech, Computer Science and Engineering

9.14 CGPA

Relevant coursework: Intro to ML, Distributed Systems, Computational Cognitive Science

G.B.Pant Institute of Engineering & Technology, Pauri Garhwal

June 2018

B.Tech, Computer Science & Engineering

79.3%

Relevant coursework: Data Structures, Algorithms, DBMS, Operating System, Computer Networks

TECHNICAL SKILLS

Programming: Python, C, C++, Java, C, Kotlin, Golang

Technologies: LLMs, Data pipelines, SQL, REST APIs, Azure, OpenCV, Pytorch

PROJECTS

Teams++

July 2021

- Added features to Microsoft teams like Video tagging, Object Focus mode, filters (like glasses, beard, etc.) using OpenCV.

Cross Device Communication using Signal R

May 2021

- Used Signal R to create a cross-platform service that enables devices to share devices belonging to the same user.

Secure Cloud Storage

Jan 2019 - Apr 2019

- Designed architecture of a cloud file storage that works even on malicious server.
- Implemented in Golang, also supports basic functionalities like adding users, login, creating a file, updating a file, sharing a file and revoking access.

Collaborative Whiteboard

Sep 2018 - Nov 2018

- Application where multiple users share same canvas on different screens.
- Java's Remote Method Invocation(RMI) was used for transfer of data.