

# HARSH KASHYAP

+91-8051625669   harsh.kashyap2001@gmail.com   [linkedin.com/in/harsh-kashyap](https://www.linkedin.com/in/harsh-kashyap)   [github.com/Harsh23Kashyap](https://github.com/Harsh23Kashyap)  
[harshkashyapportfolio.netlify.app](https://harshkashyapportfolio.netlify.app)   [leetcode.com/Harsh23Kashyap](https://leetcode.com/Harsh23Kashyap)   Certificates

## Education

B.E., Computer Science	2019 – 23	Thapar Institute of Engineering and Technology	9.71 CGPA
Class XII (ISC)	2019	Mount Assisi School	96.25%
Class X (ICSE)	2017	Mount Assisi School	94.33%

## Coursework and Skills

**Coursework:** Data Structures, OOPS, Operating Systems, Machine Learning, DBMS, Data Science, Computer Networking  
**Skills:** C/C++, Java, Spring Framework, Python, Git/GitHub, SQL, Flutter, Keras, Postman, HTML, CSS, Javascript, OpenAPI, 5G, Splunk, Swift

## Experience

### Full Time

**Apple** | *Software Developer Engineer 2* December 2023 – Present

- Collaborated on **Swift desktop app** development to enhance an existing application using **Swift, OpenAPI, C++, and Python, with shell scripting for 5G protocol testing, achieving an 80% transition from terminal to desktop for Apple developers** and improving usability with a GUI, real-time results, and heartbeat notifications.
- Worked on an in-house **XML editor to replace third-party Radisys and OSS ASN1 software**, contributing, along with other team-developed functionalities, **to projected savings of \$ 100 in Modem Functional testing per test.**
- Implemented a dynamic pre-validation check for **LTE/NR messages** to simplify test case creation by resolving interdependent component validations—**cutting manual debug time down to under 2 minutes.**
- Executed end-to-end bringup of Apple's cellular lab in India using **USRP X410/B210, base stations, modems, and user equipment (UE)** to enable **HDR (High Data Rate)** test case execution and validation.
- Built AI-Powered Workspace Optimizer **on top of Interlinked using RAG and contextual embeddings** for one-click provisioning to resolve installation/build failures through iterative remediation cycles, reducing manual intervention by 73% and eliminating multiple debugging cycles.

**Paypal** | *Software Engineer* July 2023 – October 2023

- Contributed to the enhancement of the Global Merchant Lending admin tool, optimizing audit efficiency by **approximately 13% through the replacement of manual processes with React, Node.js, and internal frameworks from Paypal**, aligning with Current Expected Credit Loss (CECL) Standards.

### Internships

**Apple** | *Software Developer Engineering Intern* January 2023 – June 2023

- Developed an internal one-page application **utilizing OracleJet, HTML, CSS, KnockoutJS, Springboot, Aluminum, Splunk, and other internal frameworks**, leading to an **impressive 83% reduction in support turnaround times** through the optimization of cross-domain access and reduction in complexity.

**Tata 1mg** | *Engineering Intern* October 2022 – November 2022

- Utilized **Asyncio, Celery, and RabbitMQ** to orchestrate asynchronous task scheduling, delivering **operational efficiencies for 3000 employees** in mail scheduling and projecting potential benefits for **over 4 million customers.**

**Cisco** | *Technical Undergraduate Intern* June 2022 – July 2022

- Conducted SDWAN network data analysis, created an internal dashboard displaying Quality of Service metrics, and **achieved a 23.2% efficiency improvement using Data Science, Python, and alternative networking tools.**

**Licious** | *Software Developer Intern* January 2022 – May 2022

- Successfully migrated sections of the application from **Swift to Flutter**, involving extensive **refactoring of over 5000 lines of code**, resulting in an **estimated 30% reduction in man-hours and improvements in app stability.**

**YASH Technologies** | *Software Engineering Intern* July 2021 – September 2021

- Collaborated on the development of an Employee Management System portal using **SpringBoot**, successfully integrating a database for attendance tracking of **over 6000 employees**, resulting in significant cost savings.

### Research

**Profesor Dennis Shasha** | *New York University*

- Researched on a modular AI-powered decision support system using HTML, JavaScript, Python, Flask, and OpenAI APIs, enabling the creation of specialized agent tools through simple code module replacements.
- Created tools such as [DietNerd](#) (PubMed, PMID), [WirelessNerd](#) (3GPP), InvestorNerd, and AdvisorNerd while ensuring adherence to safe LLM practices.

## Projects

---

**Stock Market Predictor** | *Python, Keras, TensorFlow, LSTM, Streamlit, Machine Learning*

[Website](#)

[Github](#)

- Designed a **Streamlit web application** leveraging Yahoo financial data for forecasting market trends with a **50-day moving average and an LSTM-trained model**, while concurrently providing real-time market indices.

**IDIA App** | *Flutter, Firebase, APIs*

- Developed a **customizable Flutter application** for the NPO IDIA (in its final iteration of testing and will be soon available on AppStore) , featuring admin and user sessions, user management with special mentions, event management, media and story display as well as YouTube integration, and an about page with a **targeted user base of 100+ users**.
- Implemented **Firebase for Google sign-in, password encryption, notifications, and data storage**, with pagination and lazy loading for efficiency.

**Linkedin Cold Mailer** | *Selenium, Python, Apollo, Web Driver*

[Github](#)

- Designed a LinkedIn cold emailer using **Apollo and Selenium web driver** to search for top n profiles with specific designations and companies as asked by user, extract and save emails, and send customized personal emails, with features to save contacts.

**Placement Dataset Visualisation** | *Streamlit, Data Visualisation*

[Website](#)

[Github](#)

- Created a web app with dynamic filtering for academic marks and placement data, enabling a variety of trend analysis.

## Achievements

---

- Awarded the **TIET Merit Scholarship** for ranking in the **top 0.5% all four years** of academic studies.
- Achieved a notable ranking of **rank of 89 out of 100,000** students in the IICC by AICTE.
- Actively engaged in over **50+ MUN** conferences and showcased debating skills at the national level in ASISC debates.
- Recognized as a Top Voice on LinkedIn in Computer Science and Software Development domains.
- Contributed to the anthropological project '*The Dream Walk*', showcasing strong research and communication abilities.

## Position of Responsibilities

---

- **Placement Coordinator** | *Thapar Institute*: Coordinated the placement of the 2023 batch for **over 2000 students**.
- **Vice Lead Ambassador** | *Thapar Institute Counselling Cell*: Led comprehensive mental health initiatives, demonstrating effective leadership, and fostering collaboration while **leading over 100 individuals** for cohesive support.
- **FICE Representative** | *Mount Assisi*: Showcased leadership at FICE by getting **selected from 3000+ students**.
- **Cricket Captain** | *Angika Cup*: Served as Cricket Captain, highlighting sportsmanship and leadership skills.
- **Camp Leader** | *URJA*: Oversaw and actively participated in organizing the annual blood donation camp at Thapar Institute for three consecutive years, **attracting 50+ donors** each year.