

# Harshvardhan Gupta

Indian Institute of Technology, Goa

Fourth Year **Undergraduate, Mathematics and Computing**

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[Certificates](#) || [Github](#) || [LeetCode](#)

## Education

<b>BTech, Mathematics and Computing</b> , Indian Institute of Technology Goa	CPI : <b>8.16/10</b>	2020 – Present
<b>Class 12, CBSE</b> , Garima Vidya Vihar   Indore	Aggregate: <b>92.8%</b>	
<b>Class 10, CBSE</b> , Garima Vidya Vihar   Indore	CGPA: <b>10/10 (&gt;95%)</b>	

## Experience

**India Urban Data Exchange(IUDX) | IISc Bangalore | Intern** [\[Link\]](#) (August 2023 – Dec 2023)

- Working on a Data Engineering process under Director of Research at IUDX: **Probabilistic Record Linkage**
- Creating an **Unsupervised Machine Learning Model** for Record Linkage based on **the Fellegi-Sunter algorithm**
- Created a **Supervised Machine Learning Model** on the Probabilistic Record Linkage achieving a **accuracy of 98.6%**.

**MAQ Software | Associate Software Engineer**[\[Link\]](#)[\[Certificate\]](#) (May 2023 – July 2023)

- Stood rank 1 among 48 fellow interns** from **different IITs** in internal assessment, **scoring 700/700**.
- Proficient in **Microsoft Azure DevOps** for version control, Experienced with **Databricks** and **Microsoft Fabric**, and project management
- Implemented Data Flow Automation processes using **Microsoft Azure Data Factory decreasing computation time by 60%**.
- Skilled in **Microsoft Power BI** for Data visualization in sync with cloud for Big Data processing and Collaborative **Data Analysis**
- Contribution** to the code is **pushed at the production level**

**Diagonal Matrix Ltd – Financial Crime Consultancy | Consultancy Intern** (Feb 2023 – April 2023)

- Worked in the Transaction Monitoring team in developing an advanced ML-based system, **achieving 97.95% accuracy**.
- Enforced seamless coordination with Risk Assessment and Compliance teams, contributing to **successful Board-level presentations**.

**Siemens CSR Initiative | Summer Intern | App developer** [\[Download\]](#) (April 2022 – May 2022)

*[Supervisor – Dr. Neha Karanjkar and Dr. Clint P. George]*

- Worked in a team of 5 developers**, Created an app to help stray animals and connect volunteers and NGOs
- Technologies used and gained experience in **Android Studio, Figma, Firebase, Kotlin, REST API development, and Cloud Hosting**
- App is actively being used by 10+ NGOs in Goa**

## Projects

**Cepheus Android APP | Developer** [\[Google Play\]](#) (Dec 2022 – Jan 2023)

- Led a team of 4** to develop Android app with frontend in (**Kotlin**) and backend in(**Node.js | PostgreSQL**); Hosted backend on **Amazon services: AWS**.
- Used the latest **Google libraries like One Tap** (JWT for authentication) etc., Followed **MVVM architecture** and **Retrofit** for API calls
- Used **Google Firebase** for App Notifications and **Google Crashlytics** for real-time crash reports to fix stability and scalability issues
- Integrated QR code entry gate-pass system achieved **3000+ registration and 900+ Play Store App-installation**

**War Chariot Game | OpenGL | C++** [\[GitHub\]](#) (April 2022 – May 2022)

- Worked in a team of 3** to create the game.
- Designed and Created a war chariot that can be viewed from different angles and managed by the user for various functions.
- Involves animations for user engagement.

## Skills

**Technical Skills:** C, C++, Python, Kotlin, React Native, MATLAB, SQL, BigQuery, TypeScript, Git, GitHub, Latex, Microsoft Azure, Web 2, Web 3 development.

**Soft Skills:** Communication, Public Speaking, Teamwork, Presentation, Leadership, Decision-Making, Strategic Thinking

**Relevant Coursework** DSA, Algorithm Design, Graphics, Probability and Statistics, Calculus, Linear Algebra, Computational Finance

**Financial Skills** Forecasting, Fraud Detection, Risk Management, Financial Analysis.

## Positions of Responsibility

**Placement Coordinator** Managing Placement and internship - related affairs for the Institute. (2022 – 2024)

**Core Member Infosec** Involved in DeSOC Development focused on Cybersecurity, BlockChain and WEB3 development), (2021 – 2023)  
IIT Goa.

**Core Member GDSC IIT Goa** Taught **200+ people Android** Development at **Google Android** Compose. (2022 – 2023)

## Achievements

- Selected as **one of the two Btech student out of 200** to attend **SERB Sponsored computational finance** workshop by IITs Goa, Kanpur, and Bombay. (2022)
- Completed Cloud Engineering Track and Data Science and Machine Learning Track in **30 Days of Google Cloud Program**. (2021)
- Placed 3rd** on the IIT Goa IIC virtual lab hackathon (2021)
- Among the **top 3% in IIT-JEE Advanced** 2020 of 250K candidates. (2020)

## Extracurriculars & Hobbies

- Playing Tennis and Badminton (**Rank 1** in inter-school badminton tournaments for **3 consecutive years**).
- Martial Arts, Dancing and Beatboxing (**Won 2 competitions** in my hometown)
- Teaching: TA for DSA to **150+ students** at **Hitbullseye certificate**