



# Ashish

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## EDUCATION


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**Guru Gobind Singh Indraprastha University**  
*Bachelor of Technology in Information Technology; CGPA: 8.83/10*


Delhi, India  
2020 – 2024

## WORK EXPERIENCE


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**Ministry of Science and Technology**  | **Project Associate** June 2025 - Present


- Worked on **data automation, integration tools** to streamline processes in **Department of Science and Technology**
- Built secure **REST APIs**, structured large-scale datasets, and developed a RAG-based chatbot using **NLP and vector embeddings** and developed ETL pipelines for **cross-ministerial datasets**, enabling 20+ centralized dashboards

**Zaptics Research**  **Incubated at IIT Kanpur** | **Software Engineer** Feb 2024 - June 2025


- Worked on **Android SDK** to sync data in out from our in-house built VCU to be used by 3+ Electric Vehicles OEMs
- SDK communicates with VCU over USB using **Android Open Accessory protocol** on state machine using **coroutines**
- Setup **CI/CD Pipeline** for publishing updates and testing for 0 to 1 product using **GitHub Actions**
- Developed robust internal bootloader tool for **STM32 based devices**, enabling secure firmware flashing **1600+ devices**

**IIT Delhi**  | **Research Intern** May 2023 - Oct 2023

- Engineered Uber like client for Project ALIVE, a platform for last mile vehicles supported by MEITY, Government of India
- Automated **ROS**-based decision system with 40+ nodes, implemented failure avoidance and detection system for vehicle

**Clapingo**  | **Android Engineer** Mar 2022 - Jun 2023


- Managed teacher's application teaching **20,000+ active users** used by 200+ teachers for taking live sessions
- Converted legacy codebase to clean **MVVM architecture** used **Hilt** for dependency injection, improving maintainability

**Escorts Kubota Limited**  | **Fixed Term Trainee** Sep 2022 - Feb 2023


- Developed a solution for **100+ farmers** to track farms using solar powered multi-model IoT system
- Made Android application to monitor farms in real-time and implement 20+ automated flows for a **NIFTY 200** company

## PROJECTS


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**BeatLight**  | **Sync Flashlight with Beat of Ambient Music** Nov 2024


- Implemented compute intensive FFT on audio input to extract frequency domain features, deep delved in Dispatchers
- Syncs mobile's flashlight with the beat from ambient music around you Published on Google PlayStore

**Virya**  | **AI Yoga Trainer App, Practice yoga from the comfort of your home** Jul 2023

- Posture correction app using **Google ML Kit** for real-time pose estimation and feedback without internet dependency
- Integrated Firebase for seamless user auth and ensured secure, offline ML processing on stream from **Camera2 API**

**Livpol**  | **OpenCV based queue management tool for election** Feb 2023



- App that helps voters estimate real-time waiting time at polling stations to improve planning and voter turnout

**Fliptart GRID 3.0**  | **National Finalists** Aug 2021 - Feb 2022

- Ranked among top 10 national finalists out of **9000+ registrations**, and was able to complete the assigned task
- Engineered self calibrating robust Computer Vision application and led software part of the team
- Implemented image processing using **OpenCV** on live feed, derived data used to implement custom pathfinding algorithm, **PID** for differential wheeled bots. Controlled 4 bots simultaneously, effectively

## ACHIEVEMENTS

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- **Won Over a dozen International and National Events:** Including HackBMU 6.0, 1st Runner-up
- **Techkriti (IIT Kanpur):** Stood first in Development hackathon three years in a row
- **SigFest'23:** Aced and got first position in Open Innovation Challenge and 3rd position in Robosoccer
- **Amazon ML Summer School'22:** Selected in top 1% nationally to be trained by industry specialists in ML
- **Appicorn'22:** Secured 1st rank in ideation and development hackathon
- **President Robogyan :** Led the official robotics society of the college for 2 years, as President and Vice President. Mentored 70+ teams, organized 10+ events, led 270+ members
- **Android Lead, Google Developer Student Club:** Took sessions  on Jetpack Compose Android with 3000+ views
- **SOMT** : Achieved 19th rank in Delhi in the esteemed State-Level Science Olympiad, among a large pool of participants

## SKILLS

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- **Languages:** Kotlin, Java, Python, C/C++, SQL, HTML
- **Technologies:** Android Development, Hilt/Dagger, Coroutines, MVVM, REST APIs, AWS, UI/UX, Data Structures and Algorithms, Room DB, SQLite, CI/CD, Git, Embedded Software Development, FastAPI, Firebase, OpenCV, Selenium