

Ashish

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EDUCATION

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

Delhi, India
2020 – 2024

WORK EXPERIENCE

GreyOrange  Software Engineer	Dec 2025 - Present
• Developing control software for the drive systems of smart warehouse robots within the Advanced Automation team	
Ministry of Science and Technology  Project Associate	Jun 2025 - Dec 2025
• 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 - Jun 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 Intern	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

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	
Flipkart 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

- **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

- **Languages:** Python, Kotlin, Java, 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