

Mayank Sharma

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EDUCATION

- Bennett University (Ongoing)** Greater Noida, India
2022 - 2026
 - B.Tech. Computer Science — CGPA: 8.35*

SKILLS

- **Languages & Databases:** Python, JavaScript, Java, HTML, CSS, MongoDB, Dart, MySQL, C++
- **Frameworks:** TensorFlow, Pytorch, Django, Flask, FastAPI, React, Flutter,
- **Technologies:** REST APIs, Firebase, IoT Integration
- **Tools:** Android Studio, Git, Docker, GitHub, Unity

EXPERIENCE

- Alignerr** Remote
 - Ai Trainer and Constraint Programmer* May – Present
 - **Hyperparameter Tuning and Model Testing:** Tuned hyperparameters and integrated batch normalization to optimize model performance and accuracy.
 - **Constraint programming:** Designed and solved complex optimization problems using constraint programming techniques for scheduling and resource allocation.
 - **Tech-Stack:** Python, Tensorflow, Pytorch, OR Tools, Python-Constraint.
- One Stop Tech Solutions** Remote (Bangalore, India)
 - Mobile Development Intern* Jan – Present
 - **UI Implementation:** Created and implemented responsive UI/UX across platforms using Flutter, from wireframes to production.
 - **REST API Integration:** Integrated REST APIs and real-time IoT data in close coordination with the backend team.
 - **App Testing:** Conducted rigorous testing across 20+ devices, identifying major UI bugs and performance issues, contributing to maintaining a 4-star rating.
 - **Deployment Status:** Managed internal testing phase; app slated for public deployment in September.
 - **Tech-Stack:** Flutter, Dart, Firebase, Node.js.
- Power Club Global** Remote (Miami, Florida)
 - Mobile Development Intern* Apr – June 2025
 - **Yacht-Master** 📱: Worked on the YachtMaster Mobile App for an international client, currently deployed on the App Store. Implemented OTP-based identity verification for secure profile changes. Redesigned UI flow to improve user experience. Refactored and upgraded a legacy codebase to support the latest Flutter and Dart versions, resolving compatibility and performance issues.
 - **Alpha-Go:** Implemented PSBT-based Bitcoin transaction flow enabling secure, trustless transfers between buyers and sellers. Handled PSBT creation, input/output management, signature handling, and transaction broadcasting. Integrated with UTXO management and Bitcoin libraries (BDK) to support Ordinals trading within a Flutter application.
 - **Tech Stack:** Flutter, Dart, Firebase, Flutter BDK.
- Freelance**
 - App Development* Sept - Nov 2024
 - **Mobile Application Development:** Developed a mobile application replicating key website functionalities for convenient on-the-go access.
 - **Tech-Stack:** Flutter, Firebase, Dart.

PROJECTS

- **Unier** 📱:
Unier is an Indian alternative to Nagish, developed to help deaf users connect with society through real-time chat-style transcriptions and voice replies in Hindi, English, and Gujarati. Coming soon: call support (LiveKit/PSTN) and more languages.
Tech Stack: Dart, Flutter, Firebase, VOSK, Google TTS.
- **W-Secure** 📱:
A women's safety app for India with one-tap SOS, safe zone maps, emergency contacts, and cloud-backed video/audio streaming. Powered by AI, it's evolving to detect threats in real time through gesture and scene analysis.
Tech Stack: Dart, Flutter, Firebase, Pytorch, TensorFlow, YOLOv8, VIT, Roboflow.
- **Work-It-Out** 📱:
A mobile app for personalized workout and diet planning, featuring a computer vision model that helps users perfect their exercise form and prevent injuries. The app takes your mobile camera access and can correct your form in real time by the custom CV model.
Tech Stack: TensorFlow, Pytorch, Dart, Flutter, Firebase, .

COMMUNITY WORK AND VOLUNTEERING

- FOSS United College Chapter, Bennett University** Greater Noida, India
Sept 2024 - Present
 - *Core-Tech Team*
 - **Tech Fest:** Utilized Niantic Lightship with Unity to create an interactive 3D model, enhancing spatial computing capabilities and AR experience.