Mayank Sharma

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Education

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

Skills

- **Languages & Databases**: Python, JavaScript, Java, HTML, CSS, MongoDB, Dart, MySQL, C++
- **Frameworks**: Django, Flask, FastAPI, React, Flutter, TensorFlow
- **Tools**: Android Studio, Git, Docker, GitHub

Experience

- **Freelance**
  Website Development — *Sept - Oct 2024*
  - **Built Website for Housing Society**: Developed a website for Mapsko Royale Ville housing society in Gurgaon, featuring real-time notices, calendar updates, and a media gallery for events.
  - **Tech-Stack**: Flutter, Dart, Firebase, Node.js.

- **One Stop Tech Solutions**
  Mobile Development Intern — *Jan - Present*
  - **UI Implementation**: Leading end-to-end UI/UX design and development of a cross-platform mobile application, from initial wireframing and prototyping to fully responsive and production-ready implementation using Flutter.
  - **REST API Integration**: Closely collaborating with the backend team to ensure seamless integration of frontend components with APIs and real-time data from an IoT device.
  - **App Testing**: Conducting rigorous testing and iterative refinements to ensure a responsive, intuitive, and stable user experience across devices.
  - **Tech-Stack**: Flutter, Dart, Firebase, Node.js.

Projects

- **Unier** ⬈:
  Built as an alternative to the Nagish App for Indian users, Unier helps deaf individuals integrate into society by transcribing conversations in real-time. Supports Hindi, English, and Gujarati, displaying transcriptions in chat format and synthesizing replies. Future plans include call integration (LiveKit/PSTN) and support for more Indian languages.
  Tech Stack: Dart, Flutter, Firebase, VOSK, Google TTS.
- **W-Secure** ⬈:
  A mobile app designed for women's safety in India, featuring one-click emergency SOS, a map of safe spots, emergency contact lists, and cloud-synced video/audio streams. In addition, AI-driven computer vision models are being developed for real-time suspicious activity detection using gesture analytics and scene analysis.
  Tech Stack: Dart, Flutter, Firebase, 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: Dart, Flutter, Firebase, TensorFlow.

Community Work and Volunteering

- **FOSS United College Chapter, Bennett University** — Greater Noida, India
  Core-Tech Team — *Sept 2024 - Present*
  - **Linux Fest**: Redesigned the browser-based desktop environment, transitioning from a Windows-style UI to a Linux-inspired interface for improved user experience and functionality.
  - **Tech Fest**: Utilized Niantic Lightship with Unity to create an interactive 3D model, enhancing spatial computing capabilities and AR experience.

Certifications

- **Convolutional Neural Networks** ⬈: Understanding of CNNs with experience in facial recognition and TensorFlow.
- **Sample-based Learning** ⬈: Foundational knowledge of Reinforcement Learning and core Machine Learning concepts.
- **Natural Language Processing with Classification and Vector Spaces** ⬈: Knowledge of NLP, machine translation, sentiment analysis, and semantic understanding.
- **Unsupervised Machine Learning** ⬈: Experience in dimensionality reduction and clustering techniques.