Viswanathan Krishnan

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Experience

Ofline, IIT Madras — Chennai, Tamilnadu
Flutter Developer Intern — Jun 2024 - Oct 2024

- **Optimized the customer experience** by resolving 3 major issues in the local market sector, enabling faster, smoother, and more efficient service delivery.
- **Developed 2 distinct Mobile applications** tailored for customer and merchant use, facilitating seamless communication and enabling efficient end-to-end operational workflows.
- **Published on Google Play Store**, achieving 100+ downloads and managing daily customer orders to drive seamless operations and high user satisfaction.
- **Leveraged Flutter, Dart, Firebase Auth & Cloud Firestore**, Riverpod State Mgmt, Flutter Flavors, and FCM to develop the mobile applications.

Projects

EmpowerHer - Women Safety Application — Apr 2025 - May 2025
Flutter, Flutter Maps, FCM, Dart, Riverpod

- **Engineered a women's safety application**, transmitting real-time SOS alerts to pre-selected contacts, **enabling 24/7 safety** support.
- **Enhanced user safety** by implementing risk-zone detection based on historical SOS and location data, identifying **5+ high-risk zones**.
- **Improved alert accuracy** by enabling user's contacts to verify and report false triggers, reducing false positives by 50%.

Surround View Camera Technology for Vehicle Collision Detection — Oct 2024 - Apr 2025
Python, OpenCV, Twilio API, TensorFlow

- **Built a CNN model leveraging MobileNetV2** backbone with a custom binary classifier to detect potential collisions from 360-degree camera feeds.
- **Integrated YOLO v8** into the vehicle collision detection system to enable high-accuracy, real-time object detection and tracking.
- Implemented a **real-time alert system** with Twilio API, achieving a 25% reduction in incident reporting time.

QR Code based Description of Exhibits in Museum — Feb 2024 - May 2024
Python, React.js, ImageBB, MySQL, Flask, GoogleTrans

- Designed a **QR code-based museum guide** using Python and React.js, enabling digital access to in-depth information and media for 200+ exhibits.
- Utilized the **Python Google Trans API** to provide **real-time multilingual support for descriptions** across 10+ languages.
- **Managed a robust backend** with Flask & MySQL, **handling API calls** for smooth user experience and image management on ImageBB.

Technical Skills

- **Languages**: Java, Python, Dart, HTML/CSS, Javascript
- **Frameworks & Others**: Flask, Flutter, React.js, RESTful APIs
- **Database**: MySQL, Cloud Firestore, SQFlite
- **Tools**: Github , Postman, Firebase, Android Studio, XAMPP Server

Education

St. Joseph's College of Engineering, Chennai — Oct 2021 - May 2025
B.Tech in Information Technology — CGPA: 8.63

Achievements & Responsibilities

- **Coursera** – Introduction to Data Analytics - Meta — Feb 2025
- **Machine Learning Lead** – Google DSC SJCET. — Jan 2024 - Dec 2024
- **Finalist at** SmartIndia Hackathon 2023. — Dec 2023
- **Runner Up in** Viz-a-thon '23 (PowerBI dashboard). — Jul 2023