

# VIVEK RAJ GUPTA

Android & Web Developer • AI/ML Enthusiast • Real-Time Application Developer

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## Summary

AI specialist with proven experience in **real-time solutions**, including an **accident detection model (93% precision)** using **YOLOv5 and TensorFlow**. Skilled in full-stack development with **React Native, Django, PostgreSQL, and WebSocket**. Led **AI/ML initiatives** and **social media growth (0 to 500+ followers)**, organizing **5+ successful events**.

## Education

- **B. Tech in Computer Science**, IES IPS Academy, Indore : 2021 - 2025, CGPA: 8.27/10.0

## Professional Experience

**Associate Software Engineer Intern** • Zingmind Technologies, Indore

May 2023 - Jul 2023

- Spearheaded the development of an **accident detection model** using **YOLOv5**, achieving **93% precision**.
- Leveraged **TensorFlow, Roboflow**, and custom datasets to optimize model accuracy for real-world applications.
- Collaborated with cross-functional teams to integrate AI-driven solutions into a production-ready system.

## Technical Skills

- **Programming Languages:** Python, JavaScript(Basic), SQL
- **Frameworks & Libraries:** React Native(Android), Django, Django Rest Framework
- **AI/ML & Data Science:** TensorFlow, Pandas, NumPy, Matplotlib, YOLOv5, Roboflow
- **Version Control & Deployment:** Git, GitHub, Docker
- **Real-Time Technologies:** WebSocket (Channels)
- **Operating systems:** Windows, Linux

## Projects

**BitMadhav** • AI-Powered Restaurant Call Assistant

- Built an AI-powered call-handling agent using **Django, Twilio Voice**, and **OpenAI**.
- Achieved **automated end-to-end voice interaction** without human intervention.
- Awarded a **Certificate of Achievement** in an **AI & Real-Time Systems Challenge**.

**ExploreX** • Mental Health Android App

- Developed mood analysis, AI chat support, and personalized task recommendations.
- Built with **React Native, Django**, and **PostgreSQL**, deployed on **Azure** to ensure scalability.
- Conducted **user testing**, gathered feedback, and iteratively improved app functionality.

## Hackathons & Innovation Challenges

**Smart India Hackathon 2023** • Eziii Scholarship Platform

- Led backend development using **Django, Docker**, and **Git/GitHub**.
- Built a functional prototype in **36 hours** with features like **one-tap form filling, document management**, and **scholarship tracking**.
- Selected as **5th finalist** among national-level teams.

## Certifications

**Machine Learning Specialization** • DeepLearning.AI & Stanford University (Coursera)

Jul 2024

- Proficient in **ML, deep learning, and neural networks** using Python and TensorFlow.
- Skilled in model optimization and advanced training techniques for performance improvement

## Leadership Experience

**Social Media Manager** • Google Developer Student Clubs (GDSC) IPSA

Sep 2022 – Jul 2023

- Managed GDSC IPSA's social media growth to 500+ followers, coordinated 5+ events, and improved the club's Android app functionality.

## Additional Information

- **Languages:** Fluent in **English** and **Hindi**