

YASHASVI DWIVEDI

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EDUCATION

Vellore Institute of Technology

Integrated Masters of Technology, Computer Science with Data science

Bhopal, IN

Sep 2021 – Present

EXPERIENCE

Data Analyst & Android Developer

Sep 2023 – May 2025

Cashin.club

Remote

- Data Analysis & Optimization: Enhanced complex SQL queries on Firebase data, reducing report generation and data processing time by 40%. The analysis identified a critical API bottleneck, and the subsequent fix improved server response time by 30%.
- Mobile App Development: Directed the development of the startup's first app, leveraging a single Flutter codebase to cut projected development time by 40%. Engineered 12+ screens improved for performance, achieving a consistent 60 FPS, a 99.9% crash-free rate, and an initial app load time under 2 seconds.

PROJECTS

Moodify | github.com

- Engineered a computer vision system using OpenCV and a ResNet18 model (trained on 5,000+ images to 86% accuracy) to classify ambient lighting from a live webcam feed.
- Integrated the Spotify Web API to dynamically trigger curated playlists based on the model's real-time ambiance detection.
- Optimized the end-to-end pipeline, achieving <500ms latency from image capture to music playback through a multithreaded architecture.

FireFighterAI

- Led the end-to-end ML development for a wildfire early-warning system as the sole Machine Learning Engineer on a 3-person team.
- Trained a Convolutional Neural Network (CNN) on 2,000+ satellite images, using advanced augmentation to achieve 90% precision and high robustness across diverse geographies.
- Developed a high-speed inference pipeline capable of processing satellite imagery and generating detection alerts in under 1 second per image.

App Development

- Developed a cross-platform mobile app using Flutter, creating 10+ responsive UI screens with 95% code reusability between Android and iOS.
- Architected a scalable, real-time backend using Firebase, integrating Firestore for data sync/notifications, Cloud Functions for serverless logic, and Firebase Authentication.
- Implemented a secure transaction and login system, featuring a Stripe payment gateway (99.9% reliability) and encrypted OTP-based authentication.

SalesInsight

- Executed an end-to-end data pipeline, cleaning and transforming over 100,000 rows of raw sales data using Excel and PostgreSQL to ensure data integrity.
- Designed and automated 5+ interactive dashboards to visualize key business KPIs, reducing manual report generation time by 60%.
- Delivered actionable, data-driven insights that directly contributed to a 12% increase in Q4 regional sales.

SKILLS

Professional Skills: Machine Learning, Deep Learning, TensorFlow/PyTorch, Tableau, Power BI, Data Visualization, Statistical Analysis, BigQuery, Git, Computer vision.

Languages/Frameworks: Python, SQL, Flutter, Dart, Django, Java, R, OpenCV, Firebase, REST APIs.