

Abhishek Yadav

Frontend Software Engineer — API Integrations
University of Petroleum and Energy Studies (UPES)

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EDUCATION

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- **B.Tech in Computer Science and Engineering (Fullstack AI)** 2022 – 2026
University of Petroleum and Energy Studies (UPES), Dehradun

EXPERIENCE

- **FullStack Intern — Naiyo24** June–Sept 2025
Frontend Engineering & Accounting API Integrations (Flutter, React, PostgreSQL)
 - Developed responsive **Flutter and React UIs** for financial dashboards and workflows.
 - Implemented **integration tests** and contributed to unit testing for API reliability.
 - Optimized frontend performance and implemented secure session handling for accounting transactions.

PROJECTS

- **POSH — Full Stack E-Commerce Platform** *Node.js, Express, Supabase*
Live Demo: <https://posh-plum.vercel.app/>
 - Architected a modular **RESTful backend** using Node.js and Express, middleware-based validation, and centralized error handling.
 - Implemented **OAuth 2.0 authentication and role-based authorization** (admin/user), including secure password hashing and protected routes.
 - Built a robust **file upload pipeline using Multer**, supporting dynamic storage paths, MIME validation, and persistent product media handling.
- **Real-Time Crowd Detection System** *FastAPI, Uvicorn, ONNX, OpenCV*
 - Deployed a FastAPI backend using Uvicorn to serve real-time AI-powered UAV video analytics.
 - Executed and optimized **YOLO-based ONNX models** with multiprocessing workers for parallel inference.
 - Implemented live video frame capture, preprocessing, and bounding-box annotation using OpenCV.
 - Configured environment-driven server deployment and exposed system monitoring APIs for CPU, memory, and inference metrics.
- **Forencify — Data Integration Dashboard** *Flask, JavaScript (ES6+), Bootstrap*
 - Built a unified dashboard to integrate fragmented data across Instagram, WhatsApp, and Reddit.
 - Applied efficient **data structures** and parsing techniques for scalable integration.
 - Automated metadata extraction and mapping, reducing manual reconciliation effort.

ACHIEVEMENTS

- **Open Source Contributor** — Actively contributed to GitHub repositories under open collaboration initiatives, focusing on frontend and backend issue resolutions.
- **Core Committee Member — CSI (2023)**: Organized a college-level hackathon and contributed to the **technical team**, including development of the hackathon website frontend.

TECHNICAL SKILLS

- **Frontend:** React, Flutter, JavaScript, TypeScript, HTML/CSS, Bootstrap
- **Databases:** PostgreSQL, MySQL, MongoDB
- **Backend/Integration:** Node.js, Express, Python, Flask, REST APIs
- **DevOps/Tools:** Git, Docker, Stripe, Postman