




# Divija Sharma

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## EDUCATION

**National Institute of Technology, Patna**

Aug 2023 – Present

*B.Tech Electrical Engineering*

## TECHNICAL SKILLS

**Languages:** Java, Python, C++, Go, JavaScript, Dart, SQL

**Frontend:** React, React Native, Flutter

**Backend & Frameworks:** Spring Boot, FastAPI, REST APIs, Microservices, API Design

**DevOps:** Docker, Azure CI/CD, Kong, Git, GitHub Actions


**AI/ML:** PyTorch, LangChain, Vision Transformers (ViT), Model Optimization, Inference Pipelines

**Core CS:** DSA, OOP, Operating Systems, DBMS, System Design, Distributed Systems

## PROJECTS

**AI Expense Tracker App** | *Java, Spring Boot, Python, MySQL, Kafka, Kong, LangChain, React Native* Mar 2026 

- AI-powered personal finance platform that auto-classifies transactions and tracks debts across **4** microservices.
- Event-driven architecture via Kafka enabling async inter-service communication with **90%** uptime.
- Kong API Gateway with JWT + refresh token rotation securing **1,000+** API requests/day, zero auth breaches
- LangChain pipeline classifying unstructured financial messages into structured records at **91%** accuracy.
- Full Docker orchestration cut environment setup from **2 hrs to under 5 mins** across all services

**URL Shortener** | *Spring Boot, React (Vite), MySQL, Docker* Jan 2026 

- Full-stack URL management service with real-time click analytics, expiry automation, and RESTful API.
- Analytics pipeline tracking **10,000+** click events with per-URL engagement reports and structured logging.
- Scheduled expiry jobs reduced stale DB entries by **80%**; Ensured API correctness via Postman test suite.

**FoodVision Mini** | *PyTorch, Vision Transformer (ViT), Python* Jun 2025 

- Reproduced a Vision Transformer (ViT) from a research paper and deployed it as a live inference web app.
- Boosted classification accuracy from **86% to 94%** via hyperparameter tuning over **3** iterations.
- End-to-end ML pipeline preprocessing to production: delivering **sub-1s** real-time inference.

**Kusuri** | *Flutter, Dart* Jun 2025 

- Cross-platform medication reminder app with offline-first architecture works with zero network dependency.
- Implemented local persistence layer enabling data availability offline, eliminating missed reminders.
- MVVM architecture reduced inter-feature coupling, cutting estimated time-to-ship for new features by **40%**.
- Delivered scheduled push notifications with **<2s** trigger accuracy, ensuring on-time medication adherence for users.



## EXPERIENCE

**HackSlash Coding Club, NIT Patna** | *Android Team Member*

Mar 2024 

- Developer of the HackSlash Community App (Flutter + GetX) shipped to **100+** users on Google Play.
- Optimized GetX state management, cutting widget rebuild overhead by **35%** and improving UI responsiveness.
- Secure profile & account deletion workflows implemented; technical docs reduced onboarding time by **50%**.

## ACHIEVEMENTS

- Research paper on **Raspberry Pi-based Wireless Telemetry System** accepted at **IEEE ICEFEET**.
- Qualified internal hackathon round of **Smart India Hackathon (SIH) 2024 and 2025**.
- Solved **500+** DSA problems on LeetCode with peak rating **1702**. 
- Built and maintained production-grade backend systems following clean architecture principles. 
- Served as **Coordinator & Host** for **4+** technical events and hackathons at NIT Patna.
- **Mentored** junior members during hackathon and club onboarding sessions.