Priyanshu Yadav

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Rank 3 / 10,000+ · CodeSlayer 2025, NIT Delhi · AI/ML & Full-Stack Developer · LLM systems, geospatial platforms, RAG pipelines · B.Tech CSE, Bennett University

■ **Rank 3 nationally** — CodeSlayer Hackathon 2025, NIT Delhi (10,000+ participants) · Built FinBud under 24-hour constraint

PROJECTS

FinBud

AI/ML · Hackathon Project · NIT Delhi CodeSlayer 2025, Rank 3 Nationally

- Reduced document indexing latency by 90% — from several minutes to under 200ms — by architecting a real-time RAG pipeline with semantic vector search and LLM-backed retrieval, enabling instant cross-border financial data access.
- Improved multilingual query accuracy by 50% across 14 countries by engineering a synonym-expansion layer that mapped financial terminology across languages, ensuring no relevant international documents were missed.
- Processed 1,000+ financial files weekly at 75% greater efficiency by engineering an ETL pipeline with OCR ingestion, semantic chunking, and multi-format document parsing.
- Deployed the full system on cloud infrastructure with a FastAPI inference layer, serving LLM-backed results at sub-200ms latency end-to-end.

Nirbhaya

Full-Stack · Geospatial Safety Platform

- Enabled proactive urban safety decisions by designing a real-time geospatial risk intelligence platform that aggregates anonymous community incident reports into dynamic heatmaps using Next.js, Supabase, and the Leaflet mapping engine.
- Reduced stale safety data risk by implementing an automated report expiry pipeline that continuously refreshes the geospatial dataset, ensuring risk scores reflect current conditions rather than outdated incidents.
- Delivered time-aware route safety recommendations — filtering risk by Morning / Evening / Night — by integrating OSRM routing, Nominatim geocoding, and a custom spatial aggregation layer built on TypeScript and Supabase.

Pathfinder

ML · Route Generation

- Improved route prediction accuracy over classical graph algorithms by training a graph neural network on historical movement patterns, terrain data, and real-time constraints using PyTorch — capturing behavioural factors A* and Dijkstra ignore.
- Built an end-to-end ML pipeline from geospatial data ingestion to model inference, deployed via a FastAPI endpoint for real-time route generation requests.

F1 Reflex Game

Frontend · Interaction Design

- Achieved millisecond-precision reaction measurement across all devices by implementing the browser Performance Timing API with custom scoring logic — consistent sub-5ms measurement accuracy, zero external dependencies.
- Engineered a responsive real-time feedback UI in vanilla JavaScript, achieving sub-1-second load time and consistent cross-device gameplay without any framework.

TECHNICAL SKILLS

AI / ML	PyTorch · TensorFlow · Keras · Scikit-learn · RAG · LLM · Vector Search · OCR
Languages	Python · JavaScript · TypeScript · C++ · SQL · Java
Frontend	React · Next.js · Tailwind CSS · HTML · CSS
Backend	Node.js · FastAPI · Django · Firebase · Supabase · REST APIs
Data	Pandas · Matplotlib · ETL Pipelines · Semantic Search
DevOps	Git · Linux · Docker · Cloud Deployment

EDUCATION

Bennett University, Delhi — B.Tech Computer Science(Specialization – Artificial Intelligence) · CGPA 8.0 / 10

Graduation Date: May 2028

Relevant coursework: Artificial Intelligence · Data Structures & Algorithms · Database Management Systems · Software Engineering