ANVAY KHARB

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EDUCATION

Netaji Subhas University of Technology (NSUT), Delhi, India **July 2024 - Present**
B.Tech in Instrumentation and Control Engineering

EXPERIENCE

finTECHeando **July 2026 - Present**
Full Stack DeveloperRemote

- Work on Mifos (OpenMF) and Apache Fineract, a financial platform ecosystem, with primary focus on backend development
- Backend: implemented optional payment details for transfer transactions, added loan and savings transaction search APIs, and resolved report parameter binding and template endpoint issues in Apache Fineract
- Built an exchange-rate provider sync and dynamic currency conversion engine, and added linked-phone lookup and phone-based fast-payment account linking to the Savings Plugin
- Frontend: shipped dynamic currency conversion, fast payment account linking, transaction search, and office working-hours/services management UI in the Mifos Web App
- Fixed cross-cutting issues including exchange rate edit failures, address/map rendering, third-party service configuration, zero-interest loan product updates, and responsive visualization for dynamic datatables

University of Alaska **May 2025 - Aug 2026**
Research InternRemote

- Conducted research on multimodal AI/ML for temporal emotion modeling as part of the DREAMS project (KathiraveluLab)
- Developed a pipeline to track human emotions over time by integrating scene context, building a time-aware emotion timeline abstraction, proximity utilities, and temporal segmentation for multimodal analysis
- Integrated Places365 scene classifier and face recognition-based emotion ML model into the production pipeline, with a Data Integrity Layer for multimodal temporal validation
- Research findings from this work are being prepared for submission to IEEE

ACHIEVEMENTS

Smart India Hackathon 2025 - Winner **2025**
Won Smart India Hackathon 2025 - India's largest national-level hackathon - for building INGRES AI Assistant, an AI-powered groundwater data analytics chatbot using RAG, LLM, and real-time query processing

Summer of Bitcoin 2026 - Round 2 Qualifier **2026**
Qualified Round 2 of Summer of Bitcoin - a global open-source Bitcoin & Lightning development program selecting top student contributors worldwide

PROJECTS

GroundSense Bot (INGRES AI Assistant) | Smart India Hackathon 2025 Winner **Github | Live**
RAG, LLM, React, Go, PostgreSQL, Redis

- AI-powered chatbot for groundwater data analysis handling 27K+ records with real-time query processing
- RAG pipeline combining semantic search and keyword-based retrieval with intent classification and entity extraction
- Redis caching and optimized PostgreSQL queries for backend performance
- Scalable full-stack system with WebSocket communication and dynamic data visualization

Resolve AI | JEE Preparation Platform **Github | Live**
FastAPI, Next.js, TypeScript, SQLAlchemy, JWT, Google OAuth

- Built a full-stack JEE preparation platform with AI-powered doubt solving, previous-year-question practice, study planning, and mentor-connect features
- Developed the FastAPI backend with async SQLAlchemy, JWT-based authentication, and Google OAuth 2.0 login
- Built a responsive Next.js 15 (App Router) frontend with TypeScript, Tailwind CSS, and Framer Motion
- Implemented student and mentor workflows including profile/progress tracking, mentor verification, and session dashboards

TECHNICAL SKILLS

Languages: Python, C/C++, Golang, Java
Frameworks: Angular (Contributor), Flask (Basic)
Developer Tools: Git, Docker (Basic), VS Code
Libraries: NumPy, Matplotlib, RxJS
Technologies: PostgreSQL, Redis, RAG, LLM Integration, WebSockets