

# Rohit Agrawal

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## Experience

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**FordPro Charging**  
*Technical Lead*

**Bengaluru, IN**  
2024 – Present

- Built an **internal EV charging observability platform** using Kafka that processes **120M+ events/month** to monitor and debug historical charging behavior through efficient **"point-in-time" replay and backfills**; reduced **MTTR from hours to minutes** and enabled cross-team historical debugging.
- Delivered a **GenAI support assistant** with **85% deflection** and **\$1M+ annual vendor savings**. Built a dedicated **evaluation platform** that uses LLMs-as-a-judge to automate **behavioral tests and legal compliance checks**.

**VoiceXD Inc.**  
*Co-Founder, CTO*

**California, USA**  
2023 – 2024

- Launched a **no-code SaaS platform** for creating and deploying hybrid AI assistants that **combined RAG-powered LLM responses with deterministic conversation flows**; drove product vision and guided a team of **5 engineers** through **two pre-seed funding rounds**.
- Developed an **n8n-like editor** using ReactJS for building conversation flows; implemented **real-time multiplayer features with live cursors and conflict resolution** using WebSockets.
- Designed a scalable **version control system** to enable **autosave, version history, and instant rollback** for the custom JSON-based schemas describing each AI assistant.

**FordPro Charging**  
*Full Stack Engineer*

**Bengaluru, IN**  
2020 – 2023

- Designed an algorithm for **real-time charge planning of EV fleets** that processes **30M+ requests/month @ p95 100ms**, reducing **customer energy costs by 30%** through time-of-use and demand-charge optimization.
- Built a **GTFS data-processing library** supporting **total cost-of-ownership modeling and EV-fleet planning** for a European utility partner.

## Education

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**Shiv Nadar University**  
*School of Engineering, B.Tech. Electronics and Communication*

**Greater Noida, IN**  
2016 – 2020

- **Team leader** for the winning solution at **Smart India Hackathon 2019** optimizing traffic signals using **computer vision and graph algorithms**.
- Awarded **"Most Innovative Solution"** at **IBM Hack Challenge 2019** for creating a **semantic search engine** for Stack Overflow questions using **Word2Vec embeddings and LSTMs**.
- **Primary author**, *"A cascaded deep learning approach for detection and localization of crop-weeds in RGB images"*, **International Conference on Big Data, Machine Learning, and Applications (BigDML 2021)**.
- Conducted an independent research project titled *"One-shot user authentication using ECG signals"* achieving **98% accuracy** across **100+ subjects** using **Siamese 1D CNNs and signal-processing algorithms**.

## Skills

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LaTeX, Python, FastAPI, Kafka, PostgreSQL, MongoDB, Redis, ReactJS, TypeScript, Docker, AWS, LLMs, RAG, WebSockets