

Vedanth P

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WORK EXPERIENCE

Lead Founding Engineer / *Nexrova Technologies* (College-Incubated Startup)

- Built a hotel management SAAS software that replaces the front desk, featuring a WhatsApp bot for customers and a Flutter application for staff notifications.
- Architected a backend on **AWS** using **FastAPI** and **MySQL**, implementing **WebSockets** to provide real-time check-in/out updates to staff.
- Integrated **LangChain** to enable the WhatsApp bot to execute specific Python tools via LLM function calling, containerizing the service with **Docker**.
- Managed the deployment on an **AWS EC2/Linux** instance, gaining hands-on experience in server administration and cloud infrastructure.

Discord Bot Developer

- Developed Discord bots using the **discord.py** module, which helped manage many Discord servers with ease.

Founder | **Verolyx Pvt Ltd** (*Pre-incubated at Anna Incubation*)

- Founded Verolyx Pvt Ltd and developed an AI-powered CRM designed specifically for Direct Sales Agents (DSAs) to act as a mathematical assistant and streamline loan operations.
- Engineered a CRM dashboard to track telecaller efficiency and monitor real-time case movement, ensuring sales teams could focus strictly on client factors rather than waiting on internal, time-consuming backend calculations.
- Replaced traditional manual case analysis—which historically took anywhere from 2 hours to 15 days—with an AI calculation engine that processes leads in seconds with pinpoint accuracy.
- Boosted overall sales productivity by eliminating manual analysis delays, increasing telecaller file logs from a baseline of 1 case per day to a minimum of 3 cases per day.

Achievements

- Won a national-level hackathon conducted by the Environmentalist Foundation of India (EFI), placing in the top 5 out of over 1000 teams and winning a prize of ₹3 lakhs.

- Won college-level coding competitions "Fiascode" (50+ participants), a challenge focused on generating bugs with minimal code changes, and "Random Compile" (50+ participants), which involved solving LeetCode questions under a time constraint with jumbled line numbers.

PROJECTS

Incremental Ticket Classification System (Haskell)

Developed an Incremental Ticket Classification System using Haskell. The system employs a custom, non-LLM algorithm, which tokenizes ticket content to dynamically learn and update ticket priority based on changes in a SQLite database. Implemented a robust API layer using the Servant framework.

Optimal Travel Itinerary Planner

Created an Optimal Travel Itinerary Website designed to find the most efficient travel plan. Leveraged Dijkstra's Algorithm for graph traversal, treating distance, fuel consumption, and other weighted metrics as edges to calculate the best possible route and destination.

EDUCATION

Aug 2024 - Present B.Tech in Computer Science Engineering at **Amrita Vishwa Vidyapeetham**
(CGPA: 7.48)

SKILLS

- **Programming Languages:** C/C++, Python, Java, JavaScript/TypeScript, SQL, HTML, CSS, Haskell
- **Databases:** MySQL
- **Cloud:** Amazon Web Services (AWS), Docker, GitHub
- **Tools:** Flutter, Git, VS Code, Vercel, Fast API, discord.py
- **Certifications:** Infosys Springboard: DBMS, Operating Systems | **NPTEL: Data Structures & Algorithms with Python**