

Dinesh D

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EXPERIENCE

Glitchcon 2nd Edition | VIT Chennai | Tamil Nadu, India | March 2026

- Developed **Health Ledger**, an AI-powered Healthcare Revenue Cycle Management (RCM) platform at Glitchcon 2nd Edition, officially powered by **HackerRank**, to streamline and automate healthcare claim operations.
- Engineered an intelligent claim follow-up system using AI-prioritized emails and **Twilio-powered voice calls**, reducing manual processing effort by **80%** and improving response turnaround time by **45%**.
- Built a real-time speech processing and conversational AI pipeline to analyze live interactions, prioritize high-value claims, and accelerate claim resolution workflows by **90%**.

Dataset Edition-2 | VIT Chennai | December 2025

- Built **Prufung AI** during *Dataset Edition-2 Hackathon (VIT Chennai)*, developing an API-driven exam preparation tool that generated **topic-wise random questions across multiple subjects** within a limited hackathon timeframe.
- Designed and implemented API-based logic to dynamically generate and evaluate questions, supporting **multiple topic selections** and producing **instant responses within seconds** per request.
- Collaborated in a **team-based hackathon environment** to convert problem statements into functional features, delivering a **working prototype within 24–36 hours** and successfully presenting the solution to evaluators.

PROJECT

Traffic congestion management | Personal | github.com/DarkAngel-29/Traffic-congestion-management | March 2026 - April 2026

- Developed an **AI-based traffic congestion management system** handling multiple parallel lanes, **dynamically adjusting signal timing** and reducing simulated waiting time by approximately **35–40%** compared to fixed-time control.
- Integrated **YOLOv8** and **OpenCV** to perform lane-wise vehicle detection and counting from image and video inputs across multiple traffic scenarios.
- Designed an adaptive decision module that replaces static mathematical timing rules with **AI algorithm**, enabling real-time signal updates within a single decision cycle and improving congestion responsiveness.

Fischel AI | VIT Chennai | github.com/DarkAngel-29/Fischel-AI | December 2025 - January 2026

- Developed **FISCHEL AI**, an educational platform aimed at supporting rural students preparing for competitive exams such as JEE and NEET through accessible and personalized digital learning.
- Built an AI-powered adaptive difficulty engine that dynamically adjusted question complexity based on student performance, increasing learner engagement by **65%** and improving practice accuracy by **40%**.
- Implemented a secure login and registration system with browser-based authentication and optimized the lightweight frontend for low-resource environments, reducing user onboarding friction by **50%**.

EDUCATION

B.Tech in CSE AI-ML | VIT Chennai | 8.58

Chennai, Tamilnadu | Currently Pursuing

Senior Secondary School | AVRS Poraiyur | 93.2%

Puducherry | 2024

Higher Secondary School | AVRS Poraiyur | 88.4%

Puducherry | 2022

CERTIFICATIONS

Oracle Cloud Infrastructure 2025 Certified AI Foundations Associate | Oracle | 2025

- Validates foundational knowledge of AI and ML concepts with practical exposure to cloud-based AI services on Oracle Cloud Infrastructure.
- Demonstrates understanding of AI fundamentals, model lifecycle, and responsible AI concepts aligned with industry-standard cloud platforms.

Python certificate | HackerRank | 2024

- Demonstrates proficiency in core Python programming concepts including data structures, control flow, and problem-solving.
- Validates ability to write efficient, readable code through standardized, skill-based assessments.

SKILLS

Technical languages: Python, SQL, C/C++, Java, Matlab, HTML, CSS, Javascript, GD-Script

Tools and Packages: Scikit Learn, Numpy, Pandas, OpenCV, SQL, MySQL, MongoDB, Figma, Blender, Godot,