

KIAH MANDALIYA

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Objective

- Enthusiastic computer engineering undergraduate with a solid foundation in problem-solving. Passionate about applying academic knowledge to real-world projects, exploring machine learning, and developing skills through competitive programming. Eager to learn emerging technologies and contribute to innovative solutions through hands-on internships and collaborative work.

Education

Institute of Technology, Nirma University, BE in Computer Science & Engineering June 2024 – Present

- **Current Semester:** 3rd
- **GPA:** 8.92 /10
- **Coursework:** Computer Programming(C/C++), Introduction to AI/ML, Introduction to web programming, Object Oriented Programming, Data Structure and Algorithms

Technical Skills

Languages: C/C++, Python, JavaScript, HTML/CSS, ReactJS, MATLAB, PostgreSQL, Ubuntu/Linux

Tools: Git, Visual Studio Code, Jupyter notebook

Others: MS Office, FastAPI, Database basics

Projects

Truck Routing Optimization Web App Internship at ScaleTech

- A full-stack web application for optimizing truck delivery routes using React.js (frontend), FastAPI (backend), and Machine Learning.
- The system clusters customer locations using KMeans, fetches real-world distances via OSRM, and solves the Vehicle Routing Problem (similar to Travelling Salesman Problem) with OR-Tools.
- Language & Tools Used: ReactJS, Python(FastAPI), PostgreSQL

KNN Classification

- Applied K-Nearest Neighbors algorithm to classify Wine quality
- Language & Tools Used: Python

Numerology Calculator

- Created a basic numerology calculator that lets users find numbers like Birth Number, Life Path Number, and Personality Number using their name or birth date, based on Chaldean numerology.
- Language & Tools Used: C

Shopping Website

- Created a responsive clothing website with user sign-in/sign-up toggle functionality. Focused on intuitive layout and seamless user navigation.
- Language & Tools Used: HTML, CSS and Javascript

Fitness Tracking Website

- Developed a fitness planning platform with sign-in functionality, workout customization, and BMI calculator.
- Language & Tools Used: HTML, CSS and Javascript

Competition and Achievements

Smart India Hackathon 2025 – Internal Hackathon Finalist

- Developed a prototype RASA-based conversational chatbot for rural communities, enabling accessible information delivery. Integrated the chatbot with Twilio for real-time SMS/WhatsApp messaging.
- Language & Tools Used: Python(FastAPI)

Codeforces – Max Rating: 642 (Newbie)

- Active competitive programmer, participating in rated contests and improving problem-solving skills in algorithms and data structures.

Certifications / Online Courses

- Machine Learning program - Finlatics (Jan-Apr 2025)

Extracurricular Activities

- Treasurer, IEEE- Intelligent Transport System Society, Nirma University
- Graphics Team Executive Member, Data Science Club, Nirma University
- Member, Association for Computing Machinery, Nirma University
- Member, Computer Society of India , Nirma University
- Participated in various event of "CUBIX 25" (Hosted by CSI, Nirma University)
- Participation in Model United Nations (MUN)
- Volunteered at “Vaudeville 2025” (Annual Cultural Fest)