

Sanjjiiev

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EDUCATION

Amrita Vishwa Vidyapeetham Coimbatore, *B.Tech Computer Science Engineering (core)*
Current CGPA: 7.57

08/2023 – 05/2027 | Coimbatore, India

PROJECTS

Smart-Sheild, (github.com/sanjjiiev/Smart-Sheild)

- This project presents an AI-powered emergency response system designed to detect severe road accidents and automatically send SOS alerts to nearby ambulances and hospitals.
- Tech Stack: HTML ,CSS ,JavaScript ,MySQL ,GPS ,Google Maps API

Dynamic Route Optimization System, (github.com/sanjjiiev/Dynamic-Route-Optimization-System)

- It is a real-time, interactive path finding visualization platform designed to simulate intelligent route selection in urban environments.
- it models a network of over 50 interconnected locations and dynamically computes optimal travel paths considering both normal and traffic-influenced conditions.
- Tech Stack: HTML ,CSS ,JavaScript ,DSA Algorithms (dijkstra , A-Star, Breadth-First Search)

Campus-Connect, (github.com/sanjjiiev/Campus-Connect)

- Campus-Connect is a MERN stack web application designed to enhance collaboration and communication among university students.
- This community-driven platform allows students to post requirements, find teammates, discuss ideas, and make announcements — all within a centralized digital space exclusive to their university.
- Tech Stack: React.js ,Node.js ,express.js ,MongoDB

Knowva, (github.com/sanjjiiev/Knowva)

- The Knowva is a web-based application designed to provide a personalized, interactive, and efficient learning experience.
- The app adapts to the user's learning needs by offering features such as practice problems, revision tools, resource integrations, and more.
- Tech Stack: React.js ,Node.js ,Express.js ,Open AI ,Defang.

Semantic Mapping of JSON to OWL via NLP, (github.com/sanjjiiev/NLP-Enhanced-Semantic-Mapping-of-JSON-Data-to-OWL-Ontologies)

- This project implements a robust Natural Language Processing (NLP) pipeline designed to automatically map fields from structured JSON data to classes and properties defined in an OWL ontology.
- Transforms raw data into formal, interoperable ontologies that can be used for reasoning, querying, and semantic search
- Tech Stack: python ,spaCy ,NLTK ,OWL ,RDFLib ,Protege ,JSON, Scikit-learn

Ayul, (<https://github.com/sanjjiiev/Ayul>)

- Ayul is a Flutter-based mobile application designed to preserve and promote the knowledge of traditional Indian medical systems such as Siddha, Ayurveda, Unani, and Homeopathy.
- The app provides an intuitive and bilingual experience (Tamil and English) for users to explore traditional medicines, discover their uses, and find remedies for common diseases.

GoQuest, (<https://github.com/SanjaiPG/GoQuest>)

- GoQuest is a next-generation Android travel planning application that leverages on-device AI to create personalized travel itineraries.
- Built with modern Android development practices using Jetpack Compose and Material Design 3,

SKILLS

Languages: Python, Java, C/C++

web & mobile development: HTML, CSS, JavaScript , react.js, node.js, express.js , Flutter , Dart

AI & ML: Pytorch, Pandas, NumPy, Scikit-learn, OpenCV, Data Handling, TensorFlow,Hugging Face

Database management: MySQL, MongoDB, SQLite,Firebase

Tools & Platforms: Linux, Git/GitHub, Google Maps API, VScode, Godot, Android Studios

Embedded Systems: Arduino, Raspberry Pi, STM32, Sensor Integration ,microcontrollers

Security & Networking: OSI layers, IP addressing, Wireshark, Cisco-packet tracer , OSINTgram , Metasploit Framework , BeEF

Design: Blender, Figma

Digital Marketing: Content Creation, social media, Design Skills, Data Analysis

AWARDS

Uyir Hackathon Finalist

Developed an AI-powered SOS system for autonomous vehicles, competing in the final round.

Bootstrap '25 Defang.io Hackathon

Developed an AI-powered Personalized Learning Management System, earning third place in the competition.

Swachhata Hi Seva Campaign - NSS Certification

Recognized for active participation in the National Service Scheme (NSS) camp

Bharatiya Antariksh Hackathon 2025

successfully submitted my idea for the Bharatiya Antariksh Hackathon 2025.