

DHANUSH KUMAR V

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EDUCATION

Sri Sivasubramaniya Nadar College of Engineering

B.Tech Information Technology

August 2022 - Graduating 2026

CGPA: 7.19

PROJECTS

Bus route Optimization

February 2025 - Present

- Developed an AI-powered route optimization system using Genetic Algorithms and OR-Tools, reducing travel distance by 25% and fuel costs by 15% while ensuring 100% constraint compliance.
- Integrated Quectel GNSS modules for real-time bus tracking (5m accuracy) and developed a mobile/web app for attendance-based dynamic routing, cutting no-shows by 40%.

DDoS Detection System(Distributed Denial of Service)

August 2024 - December 2024

- Architected and deployed an XGBoost-based DDoS detection system achieving 99.97% accuracy, leveraging the CICDDoS 2019 dataset and optimizing hyperparameters through Randomized and Grid Search for real-time threat classification.
- Created real-time network monitoring solution with Scapy for packet capture and Apache Kafka for data streaming, enabling live threat detection and visualization.

Faculty Workload Portfolio

April 2024 - June 2024

- Engineered a full-stack web platform to manage academic workloads for 20+ faculty, with a responsive dashboard and activity logging.
- Designed using Django, HTML, SQL, and CSS for seamless data handling and with a user-friendly interface.

SKILLS

Programming Languages: Python, Oracle DBMS, C++

Library/Framework: pandas, numpy, scikit-learn, tensorflow, pytorch

Technologies: Machine Learning, Deep Learning, Git, Data Analytics

Web Development: HTML, CSS

Web Design Tool: Figma

ACHIEVEMENTS

Hackathon ,Organized by Dpurpose Foundation and United Nations UNLEASH

June 2024

Selected as top 100 teams in India hosted by Dpurpose Foundation and United Nations UNLEASH

South-West Zone Sports event ,hosted by Ministry of sports

December 2023

Qualified and represented Anna University at the zonal level Archery tournament held in Punjab.

All India National Sports Event , conducted by Ministry of sports

December 2024

Represented Anna University as a national-level archer at the All India tournament held in Punjab.