

S GIRISH KUMAR

CONTACT

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- <https://github.com/sgirishkumar04>

SKILLS

- C / C++
- Python
- JavaScript
- SQL
- HTML
- CSS
- MongoDB
- Cassandra
- Machine Learning

LANGUAGES

- English
- Malayalam
- Tamil

INTERESTS

- Machine Learning
- Artificial Intelligence
- Web Development
- App Development
- Deep Learning

CAREER OBJECTIVE

Dedicated and enthusiastic Computer Science student eager to apply academic knowledge in a professional setting. Committed to continuous learning, contributing to impactful projects, and thriving in collaborative team environments.

EDUCATION

Bachelor Of Technology in Computer Science Engineering 2022 - 2026
AMRITA VISHWA VIDYAPEETHAM , COIMBATORE

EXPERIENCE

Intern - Bharat Petroleum Corporation Ltd (BPCL), Kochi Refinery Kochi, Kerala | [April 2025] - [May 2025]

- Developed a web application using ASP.NET MVC and SQL Server to monitor open permits at Kochi Refinery. Automated daily email alerts with categorized permit counts, linking to detailed reports for efficient tracking.

PROJECTS

- Comparative Analysis of Deep Learning and Traditional Machine Learning Approaches for the Detection of Hardware Trojans**
- Research on detecting hardware Trojans using deep learning (TabNet, TabTransformer) and ML models without relying on golden ICs.
- Deep Learning-Based Classification of Potato Leaf Blight Using Vision Transformers**
- Conducted a comparative study of deep learning models (MLP, CNN, Vision Transformer) for plant disease classification. Implemented image segmentation to emphasize infected regions and improve model focus and interpretability.
- Personalized News Aggregation**
- Built a web app that uses AI/ML to personalize news feeds based on user preferences, with Firebase for auth/storage, Streamlit for UI, and real-time news via APIs.
- CLCH Algorithm for Smart Network Selection**
- Implemented a distributed system-based handover algorithm (NWSEL & NSMNTN) prioritizing Wi-Fi, DSRC, and cellular networks to ensure seamless connectivity with minimal overhead.
- Client Server Disaster Response Network**
- Developed a client-server system focused on disaster response, enabling seamless communication and data sharing in real-time during emergencies, with integrated location tracking for responders and automated alert systems for immediate notifications.
- GPS - Navigation System**
- Designed a GPS-based navigation system using Dijkstra's algorithm to determine the shortest path between locations, utilizing graph data structures for efficient route calculation and navigation logic.