

S GIRISH KUMAR

Roll No.: CB.EN.U4CSE22150

Bachelor of Technology

Amrita Vishwa Vidyapeetham, Coimbatore

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🐙 GitHub Profile

🌐 LinkedIn Profile

EDUCATION

•Bachelor of Technology in Computer Science and Engineering

2022 – 2026 (Current)

Amrita Vishwa Vidyapeetham, Coimbatore

CGPA: 7.36

•Higher Secondary Education (Class 12) – CBSE

2022

The Velammal International School, Ponneri

Percentage: 74%

•Secondary Education (Class 10) – CBSE

2020

The Velammal International School, Ponneri

Percentage: 71%

PERSONAL PROJECTS

•AI/ML Video Summarizer – Smart Web App for Video Transcription & Summarization

Web app that transcribes, translates, and summarizes videos using open-source AI models.

- Implemented accurate speech-to-text using faster-whisper and summarization via Hugging Face API.
- Enabled multilingual support (Tamil, Hindi, Spanish, etc.) with translation to English.
- Optimized for free-tier deployment (Render.com) with model preloading and minimal resource use.
- Tech: Python, Flask, Vanilla JS, HTML/CSS, Unicorn, REST API, Render, Git.

•Potato Leaf Disease Classification using Vision Transformers

Compared ViT, CNN, and MLP for Early vs. Late Blight detection using PlantVillage dataset.

- ViT achieved highest accuracy (94%) using masked images for disease localization.
- Technologies: Python, PyTorch, Vision Transformer.

•Newsify – Personalized News Aggregator

Built a content-based news recommendation app using Streamlit, Firebase, and Scikit-learn.

- Implemented TF-IDF + Cosine Similarity for personalized article recommendations.
- Used Firebase for authentication and storing user interaction data.
- Integrated NewsAPI for real-time news and dynamic user-specific feeds.

•CLCH Algorithm for Smart Network Selection

Simulated decentralized V2X network switching across Wi-Fi, DSRC, and Cellular.

- Designed distributed logic for autonomous vehicle network selection.
- Built real-time Matplotlib visualization with multi-client CLI control.
- Tech: Python, Sockets, Threads, JSON, Matplotlib.

EXPERIENCE

•Bharat Petroleum Corporation Ltd (BPCL), Kochi Refinery

April – May 2025

Intern

Kochi, Kerala

- Developed a web-based dashboard using ASP.NET MVC and SQL Server to monitor and report open permits.
- Automated daily email alerts with clickable links for real-time access to categorized permit reports.
- Implemented stored procedures for retrieving permit data issuer-wise and receiver-wise.
- Improved permit tracking efficiency and safety compliance through interactive reporting.

•ProTeam Softwares India Private Limited, Chennai

May – June 2025

Intern

Chennai, Tamil Nadu

- Developed automated test scripts using Selenium WebDriver with Maven in Eclipse for a web application.
- Performed functional and regression testing to identify bugs, UI issues, and logic errors.
- Logged detailed defect reports and collaborated with the development team for resolution.

TECHNICAL SKILLS AND INTERESTS

Languages: C/C++, Python, JavaScript, HTML/CSS **Libraries/Frameworks:** STL, NumPy, Pandas, Matplotlib, React.js, Node.js **Tools:** VS Code, Git, GitHub **Databases:** MongoDB, Firebase, MySQL **Coursework:** DSA, OS, OOP, DBMS, SE **Interests:** Web Development, Cloud Security **Soft Skills:** Problem Solving, Self-Learning, Adaptability