GANESH ADIMALUPU

AI/ML Enthusiast | Computer Science Graduate | Aspiring Data Engineer | ML & Pipeline Builder

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SUMMARY

Recent Computer Science graduate with strong foundational knowledge in AI/ML technologies and hands-on experience gained through academic internships and research projects. Proficient in Python, TensorFlow, and data analysis with demonstrated ability to learn quickly and apply theoretical concepts to practical solutions. Passionate about leveraging AI to solve real-world problems and eager to contribute fresh perspectives and technical skills to a dynamic development team.

ACADEMIC INTERNSHIP

HDLC Info Technologies | *May 2023 - June 2023*   Certificate

- Completed 2-month structured learning program in Data Science and Machine Learning
- Worked on practical projects including handwritten digit detection using CNN
- Developed news classification system using Natural Language Processing
- Completed celebrity image classifier project using deep learning techniques

Techniche IIT Guwahati & 1Stop.ai | *June 2022 - August 2022*   Certificate

- Completed intensive AI program covering machine learning fundamentals
- Gained exposure to Machine Learning and practical implementations
- Completed projects involving data preprocessing and model development

PROJECTS

Be My Chef AI – AI-Powered Recipe Recommendation System   Github

St Thomas Institute for Science and Technology | October 2024 - March 2025

- Built an AI-powered web application that generates complete recipes from user-uploaded food images.
- Designed and implemented a deep learning pipeline combining CNNs for ingredient recognition and Transformer models for recipe text generation.
- Achieved ingredient recognition and recipe generation with strong evaluation scores:
- COSIM: 0.7282, WER: 0.7613, ROUGE-2: 0.2470, BLEU: 0.3245, GLEU: 0.2624, METEOR: 0.4150 (using Chef Transformer model).
- Developed a user-friendly Streamlit interface for image upload, chef persona selection, and interactive recipe display.
- Integrated multiple chef models to provide varied culinary styles in recipe outputs.
- Enabled real-time, automated recipe creation, enhancing food exploration and discovery for users.

Winner: Best Paper Award (NCAISF'25) for innovative AI solution

Tech Stack: Python, Jupyter Notebook, Streamlit, PyTorch, Transformers, CNNs

IoT Lift Access Control System using RFID   GitHub

St Thomas Institute for Science and Technology | March 2024 - May 2024

- Designed, built, and deployed an innovative IoT-based lift access control system, integrating secure RFID authentication, keypad floor selection, and real-time cloud monitoring.
- Engineered embedded logic for user authentication and lift control in C++ (`test.ino` and `arduino_receive.ino`), enabling smooth communication between hardware and cloud.
- Developed a feature-rich Flutter mobile app for remote monitoring and lift management, supporting Android, iOS, web, and desktop.
- Leveraged Firebase for instant data sync, access logs, and cloud-based analytics.

- Significantly enhanced building security and operational efficiency by enabling granular, auditable lift access control.

Appreciation: Received formal certificate and appreciation from the Principal at the college project showcase for outstanding innovation   and implementation.

Tech Stack: Dart (Flutter), C++, ESP8266, Firebase, Arduino IDE

Hospital Management System | Self-learning Project | May 2025   Github

- Designed and developed a responsive, SEO-optimized website for Sneha Deepa Hospital, enhancing the hospital's online presence and accessibility for patients and the community.
- Built with Next.js and React.js for fast performance, server-side rendering, and modern web best practices.
- Implemented extensive features, including bilingual support, service and doctor listings, appointment/contact forms, image galleries, and news updates.
- Emphasized accessibility (semantic HTML, alt text, keyboard navigation) and cross-browser compatibility.
- Deployed to AWS Amplify and Vercel, enabling scalable and reliable hosting, CI/CD, and custom domain integration.
- Followed best practices for performance (image optimization, fast loading), security, and maintainability.
- Improved hospital outreach, patient engagement, and operational efficiency through digital transformation.

Tech Stack: JavaScript, React.js, Next.js, Tailwind CSS, HTML, CSS, AWS Amplify, Vercel

LEADERSHIP & COMMUNITY CONTRIBUTIONS

Chapter Lead – Free and Open Source Software United STIST

FOSS United | 2023 – Present

- Launched the second-ever FOSS United college chapter in Kerala after Muthoot Institute of Technology, Kochi
- Coordinated with FOSS United core team and International Centre for Free and Open Source Software to ensure chapter recognition and support
- Built student-led team from scratch and fostered active contributor culture promoting open-source development
- Conducted multiple community meetups, Linux installation parties, GitHub workshops, and version control training sessions
- **Flagship Event**: FOSS Hack Localhost 2024 (officially recognized national node)
  🔗 FOSS United Chapter Page | FOSS Club Activities

International Centre for Free and Open Source Software (ICFOSS) | 2023 – Present

- Actively collaborated on outreach programs promoting Free and Open Source Software among college students primarily in Trivandrum region
- Served as a bridge between ICFOSS and campus communities, organizing awareness sessions, technical talks, and FOSS 101 workshops for newcomers.
- Led initiatives like:

  - CLI Treasure Hunts

    🔗 ICFOSS Committee Notification

MuLearn + Free Software User Group (FUGE) TVM | *2022 – Present*

- Played a key role in launching MuLearn's FOSS Learning Circle at STIST, helping 15+ students onboard GitHub and contribute to open repositories
- Led and moderated challenge-based skilling tasks, enabling participants to earn Karma Points and grow their digital portfolios

- Contributed to organizing FOSS-related awareness campaigns through FUGE TVM, reaching students from multiple colleges in Trivandrum
- Mentored juniors and peers in career-aligned open-source projects and participated in collaborative coding sprints

🔗 FOSS United Forum – STIST Activities

EVENT MANAGEMENT & ORGANIZING EXPERIENCE

Lead Organizer – Yukthi'25 TechFest

St Thomas Institute for Science and Technology | 2025

- Spearheaded planning and execution of flagship technology festival with **500+ participants** from various colleges across Kerala
- **Key Responsibilities:**

  Sponsorship acquisition(secured 3.73 lakhs) and complete budget management
  Outreach campaigns and branding strategy development
  Technical session coordination, industry speaker invitations, and workshop planning
  Volunteer team leadership and problem-solving during event

Hackathon Organizer

Multiple Campus Events | 2023 – 2024

- Organized both internal college and public hackathons under Free and Open Source Software Club
- **Major Events:**

  FOSS Hack Localhost 2024 – recognized as official node of national-level Free and Open Source Software Hackathon
  Innovation and idea pitching competitions with industry mentors
  Project submission review processes and mentor coordination systems

Workshop Facilitator & Technical Session Host

St Thomas Institute for Science and Technology | 2022 – Present

- Conducted workshops on Linux fundamentals, Git/GitHub version control, ethical hacking with open-source tools, and software development methodologies
- Served as Master of Ceremonies and host for inter-department technology events and Free and Open Source Software community gatherings
- Created engaging and welcoming learning environments for new technology enthusiasts and contributors

SKILLS

Languages: Python, JavaScript, Dart, C++, HTML, CSS
Tools: Jupyter Notebook, Git, GitHub, Arduino IDE, Visual Studio Code, Streamlit, npm
Frameworks/Libraries: React.js, Next.js, Tailwind CSS, Flutter, PyTorch, Transformers, scikit-learn
Cloud/DevOps: Firebase, AWS Amplify, Vercel
Concepts: Machine Learning, Deep Learning, NLP, Computer Vision, IoT, Embedded Systems, Cross-platform App Development, Responsive Web Design, Cloud Deployment, Accessibility (A11y), SEO
Databases: Firebase, SQL, MongoDB

CERTIFICATIONS

Python Course	Cokonet
Machine Learning Crash course	Google
Artificial Intelligence Program	Udemy
Machine Learning in Python & R	Udemy

EDUCATION

Bachelor of Technology, Computer Science   **April 2025**

St Thomas Institute for Science and Technology - TVM, Kerala

Higher Secondary School, Mathematics   **September 2021**

Narayana Junior College - Kurnool, AP

Secondary School Certificate   **March 2019**

Christu Jyothi High school - Gajulapalle, AP