

GANESH KRISHNA DOSS

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Chennai, Tamil Nadu – 600037, India

OBJECTIVE

Software developer with a strong focus on AI and deep learning. I enjoy building smart, efficient systems that solve real problems and improve user experience. With a solid grasp of mathematical algorithms and scalable design, I am driven to create solutions that make a difference. Excited to connect and discover how AI can drive meaningful change.

EXPERIENCE

• Zoho Corporation

February 2025 - April 2025

Intern (Zoho CRM)

Estancia IT Park, India

- Built and optimized RAG applications using LangChain and Groq for accurate real-time data retrieval
- Developed OCR-based text extraction and translation, ensuring proper text alignment and layout
- Integrated DeepL and Qwen models to improve multilingual translation accuracy
- Tested and refined the applications to boost performance and user experience

• Zoho Corporation

May 2023 - June 2023

Intern (Zoho Projects)

Estancia IT Park, India

- Collaborated on a team to design and implement web applications using modern technologies
- Developed responsive user interfaces and enhanced user experience
- Conducted testing and debugging to ensure application quality
- Received positive feedback for delivering high-quality code and effective teamwork

EDUCATION

• Sri Sairam Engineering College

November 2021 - April 2025

B.E. Computer Science and Engineering

Chennai, India

- CGPA: 8.52/10

• Chinmaya Vidyalaya

June 2021

Higher Secondary Education

Chennai, India

- Grade: 97.6/100

PROJECTS

• IT Subdomain Classification and Optimization with RAG and LLM

Feb 2025

Tools: [Python, LangChain, NomicEmbeddings]



- Developed an agent-supervisor framework using LLMs to classify and optimize IT subdomain data. The agent autonomously extracts and structures subdomain details, while the supervisor ensures consistency by intelligently merging technical and industry-specific skills.

• Multilingual OCR with Seamless Translation and Layout Retention

March 2025

Tools: [Python, OpenCV, PyTesseract, Langdetect, DeepL]



- Developed a multilingual OCR system using Python, OpenCV, and PyTesseract to extract and translate text from images while preserving layout. Integrated Qwen and DeepL APIs for accurate language detection and translation.

• A Deep Learning Based Detection and Classification of Gastrointestinal Diseases

March 2025

Tools: [Python, Tensorflow, Keras, CNN]



- Developed a Python-based deep learning system using Convolutional Neural Networks (CNN) to detect and classify gastrointestinal diseases from medical images.

• Resilient Coastal Management for Southeast Asia

November 2023

SEATECH Hackathon 2023 - Universiti Teknologi PETRONAS, Malaysia

- A pioneering initiative leveraging blockchain technology to fund coastal resilience projects while offering transparent carbon credit transactions, empowering corporate sustainability and environmental stewardship.

• Modern Ecommerce Website

May 2023

Tools: [React Js, Tailwind CSS, HTML, Firebase]



- Implemented a sleek and intuitive user interface to enhance the online shopping experience, enabling seamless product browsing, secure transactions.

• Expense Tracker

May 2023

Tools: [React Js, Tailwind CSS, HTML]



- Developed a user-friendly Expense Tracker application to effectively manage personal finances with intuitive features, including expense recording, categorization, and visual representation of spending patterns.

• Library Management System

March 2021

Tools: [Python, Tkinter]



- A user-friendly application designed to efficiently manage library operations. It offers various features in a streamlined approach for efficient library administration.

PUBLICATIONS

- [C.1]

Ganesh K, et al. (2024). **A Deep Learning Based Detection and Classification of Gastrointestinal Diseases**. In *2024 6th International Conference on Electrical, Control and Instrumentation Engineering (ICECIE)*, IEEE. November 23, Pattaya, Thailand. DOI: 10.1109/ICECIE63774.2024.10815673
- [C.2]

Ganesh K, et al. (2024). **Distributed Machine Learning Based Intrusion Detection in IoT**. In *2024 International Conference on Power, Energy, Control and Transmission Systems (ICPECTS)*, IEEE. October 8–9, Chennai, India. DOI: 10.1109/ICPECTS62210.2024.10780018

SKILLS

- **Programming Languages:** C, C++, Python, Java, JavaScript
- **Web Technologies:** React JS, Next JS, Git, GitHub, HTML, Tailwind CSS, Node JS
- **Database Systems:** SQL, MongoDB, Firebase
- **Data Science & Machine Learning:** LangChain, Pytesseract, NumPy, Tensorflow, Keras, Pandas, OpenCV, Matplotlib, Scikit-learn
- **Version Control:** Github
- **Design Tools:** Canva, Adobe Photoshop, Premiere Pro, After Effects

HONORS AND AWARDS

- **Best Innovative Project**

CSI Kanchipuram Chapter

◦ Our project, "Deep Learning-Based Gastrointestinal Disease Prediction and Classification," was honored with the prestigious Best Innovative Project Award from the CSI Kanchipuram Chapter.

April 2023
- **Competition Achievement**

SEATECH Hackathon 2023, Universiti Teknologi PETRONAS, Malaysia

◦ 4th Place Winner — Southeast Asian Level

◦ Demonstrated strong skills in team collaboration, innovative problem solving, and rapid prototyping at a regional scale.

November 2023

LEADERSHIP EXPERIENCE


- **Chairman**

IEEE ITS Society SB Chapter, Sri Sairam Engineering College

◦ Lead initiatives to promote intelligent transportation systems through events, workshops, and collaborations.

◦ Coordinated with faculty and industry experts to provide valuable learning opportunities for students.

June 2024 - April 2025



- **Vice Chairman**

IEEE Student Branch, Sri Sairam Engineering College

◦ Drove initiatives to foster innovation, professional growth, and community engagement among students.

◦ Committed to empowering future engineers and promoting excellence in STEM education.

May 2024 - April 2025



VOLUNTEER EXPERIENCE

- **UI/UX Designer**

Design Club, Sri Sairam Engineering College

◦ Crafted visual materials to support various club's initiatives and activities.
- **Coordinator**

Google Developer Student Clubs, Sri Sairam Engineering College

◦ Event planning, workshop organization, and actively contributed to various related tasks.
- **Volunteer**

TedX 2023, Sri Sairam Engineering College

◦ Contributed to the design team and served as the exclusive video editor from the inception of the event.

PROFESSIONAL MEMBERSHIPS

- **IEEE**, Membership ID: 98157415

Valid Till: 31st December 2025
- **Computer Society of India**, Membership ID: 01598289

Valid Till: 31st October 2025

CERTIFICATIONS

- **Neural Networks and Deep Learning**

October 2023
- **Learning Git and GitHub**

August 2023
- **Artificial Intelligence Foundations: Machine Learning**

October 2022
- **Machine Learning with Python: Foundations**

October 2022
- **Introduction to Data Science**

April 2022
- **Python Basics for Data Science**

January 2022

ADDITIONAL INFORMATION

Languages: English , Tamil, Telugu

Interests: Badminton, Tennis, Basketball

REFERENCES

1. **Dr. B. Latha**

Head of the Department, CSE
Sri Sairam Engineering College
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Relationship: [Thesis Advisor]

2. **Dr. R. Uma**

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3. **Dr. R. Valarmathi**

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4. **Badrinath R**

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5. **Bala Surya M**

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