



M MUTHU SELVAM

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B.Tech, Computer Science and Engineering

Address : 5th Karikala Cholan Street Grandylan Maharaja Nagar
Chennai 52



INSTITUTE OF SCIENCE & TECHNOLOGY

(Deemed to be University u/s 3 of UGC Act, 1956)

Summary

Aspiring Software Developer with a strong foundation in **programming, data structures, and web development**. Proficient in **Python, C, and HTML/CSS**, with experience building **scalable, user-focused applications**. Skilled in **prompt engineering** to effectively guide generative AI toward high-quality outputs. Passionate about **software testing, test automation** and **quality assurance**, with a commitment to **continuous learning** and applying best practices in real-world development environments.

Education

SRM IST-Ramapuram

B.Tech · Computer Science and Engineering

2026

CGPA - 7.44/10

Velammal Vidhyashram

Class XII - CBSE · Bio Maths · Chennai

2022

Percentage - 71.8%

Velammal Vidhyashram

Class X - CBSE · Science · Chennai

2020

Percentage - 67.8%

Experience

Dexian

AI Intern · Internship (Full-time, Onsite)

Oct 2025 - Feb 2026

Chennai, Tamil Nadu, India

Contributed to the development, implementation, and optimization of AI and machine learning models using Python, TensorFlow, and PyTorch. Gained hands-on experience in data preprocessing, feature engineering, and model evaluation while collaborating with mentors to apply AI solutions to real-world problems and support data-driven decision-making.

Projects

Generated Image Detection Identifies Synthetic Patterns and Authenticity

Apr 2025 - May 2025

- YOLO,CNN,TensorFlow ,PyTorch
- AI and Deep Learning
- Engineered a deep learning system using CNN and Vision Transformer models, achieving 92.6% accuracy in detecting AI-generated images from datasets such as StyleGAN2, ProGAN, and DFDC.
- Developed and deployed a Flask-based REST API for real-time image authenticity scoring, processing 1,000+ images per minute.
- Enhanced model robustness by 28% against compressed and low-resolution inputs through advanced preprocessing (DCT filtering, color histograms, artifact analysis).

Apr 2025 - May 2025

AI and ML

Oncology Prediction and Prognostication

· CNNs,RNNs,SVM,Neural Networks

- Deployed an integrated machine learning pipeline leveraging CNNs for medical image classification, RNNs for time-series patient monitoring, and SVM for feature-based cancer subtype classification.
- Enabled early diagnosis and personalized treatment planning by analyzing imaging, clinical, genomic data using AI-driven models, contributing to improved patient outcomes in oncology care.

Apr 2025 - May 2025

AI and ML

Diabetes Prediction System

· Python Pandas Numpy, Scikit-learn, SVM, Matplotlib

Nov 2024 - Dec 2024

AI and ML

- Deployed a machine learning-driven diagnostic tool using Python (scikit-learn) and patient data, enabling earlier interventions and reducing predicted patient hospitalization by an estimated 15%
- Utilized a comprehensive dataset of over 1000 patient records, including key health indicators like age, BMI, and glucose levels, to train and validate the predictive model.

Skills

Languages and Frameworks: Python, C, JavaScript, MySQL, HTML/CSS

Technical Skills: Prompt Engineering, CNN, RNN, SVM, Vision Transformers

Publications

Generated Image Detection Identifies Synthetic Patterns and Authenticity

Apr 2025

Conference Paper

- International Conference on Sustainable Energy and Innovation Technology ICSEIT 2K25
- April 11-12, 2025
- ISBN: 978-93-342-0319-6
- Project focused on using machine learning, particularly CNNs and GAN analysis, to detect AI-generated images by identifying synthetic patterns and assessing authenticity.
- Keywords: Deepfake detection, Visual pattern recognitions, Image authenticity verification, GAN Detection.

Certifications

Artificial Intelligence Fundamentals | [Link](#)

Aug 2025

IBM SkillsBuild · PWID-B0133500

Prompt Engineering for AI Systems | [Link](#)

Sep 2025

Dubai Future Foundation · UxIBlvezGryJ

GenAI Powered Data Analytics Job Simulation | [Link](#)

Sep 2025

Tata and Forage · 5TqErv34n6CtW9d3S

Languages

English [Professional Working Proficiency], Tamil [Native Proficiency], Hindi [Fundamental Proficiency]

Volunteering

COMMUNITY CONNECT

Jun 2024 - Jul 2025

Pivotal Role · Community Education and Development

- Led community education workshops on health awareness, digital literacy, and personal hygiene, reaching 200+ participants and empowering underserved groups.
- Designed and implemented outreach programs with local NGOs and schools, mentoring learners and increasing literacy engagement by 35%.

Anbagam - Old Age Home

Jun 2024 - Jul 2025

Volunteer · Practical Support

- Provided personalized companionship and facilitated group activities for seniors, supporting emotional well-being and engagement for up to 10 residents per session.
- Assisted in daily operations, including meal and personal care distribution for 40+ residents, ensuring comfort, hygiene, and smooth facility functioning.

Extra Curricular Activities

Video Editing

Content Creation

Community Service

Badminton

Links

[LinkedIn](#), [GitHub](#)