



M MUTHU SELVAM

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B.Tech, Computer Science and Engineering

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



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	2026
B.Tech · Computer Science and Engineering	CGPA - 7.44/10
Velammal Vidhyashram	2022
Class XII - CBSE · Bio Maths · Chennai	Percentage - 71.8%
Velammal Vidhyashram	2020
Class X - CBSE · Science · Chennai	Percentage - 67.8%

Experience

Dexian	Oct 2025 - Feb 2026
AI Intern · Internship (Full-time, Onsite)	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
<ul style="list-style-type: none">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).	
Oncology Prediction and Prognostication	Apr 2025 - May 2025
· CNNs,RNNs,SVM,Neural Networks	AI and ML
<ul style="list-style-type: none">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.	
Diabetes Prediction System	Nov 2024 - Dec 2024
· Python Pandas Numpy, Scikit-learn, SVM, Matplotlib	AI and ML
<ul style="list-style-type: none">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	
<ul style="list-style-type: none">International Conference on Sustainable Energy and Innovation Technology ICSEIT 2K25April 11-12, 2025ISBN: 978-93-342-0319-6Project 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 · UxIBlvezGrvJ	
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	
<ul style="list-style-type: none">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	
<ul style="list-style-type: none">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](#)