

TANUSH T M

Junior AI Engineer

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ABOUT ME

AI Engineer with lots of hands-on experience in Deep Learning, Computer Vision, NLP, Generative AI, Data Science, Machine Learning and Web Development. Passionate about leveraging technology to create impactful solutions.

WORK EXPERIENCE

CHIEF TECHNICAL LEAD - ADEPTUS

ADEPTUS - Technical Club, EEC | Oct 2024 – present

- My roles and responsibilities are aligned towards building websites and systems that could help the club manage content creation
- I also build interactive solutions for the events, newsletters and blogs of the club

CTS RESEARCH INTERNSHIP

Cognizant Technology Solutions | Dec 2024 – present

- Focused on leveraging SOTA techniques and technologies in the field of AI to contribute to the domain of Health and Medical Diagnostics

COMPUTER VISION INTERN

Infomaps, Chennai | June 2024 – Aug 2024

- **Real-Time Traffic Analytics**
 - This is a project done for the Tamil Nadu Police. This project focuses on extracting Traffic Analytical data in real time.
 - The project focuses on maintaining data of vehicle count by leveraging object classification, tracking and counting.
 - The project classifies the vehicles on a variety of classes and maintains the count and other analytical data.
- **Building Footprint Extraction**
 - Focused on automating the workflow of processing raw satellite data and imagery to digitized maps.
 - Utilized advanced computer vision techniques and deep learning frameworks to complete the entire project.
 - The high level workflow is to extract building footprints, polygonize them and convert it into GIS compatible shape files.

DATA SCIENCE INTERN

Exposys Data Labs | May 2024 – June 2024

- Focused on building a reliable and efficient Machine Learning model to a health condition.
- Worked on Data Acquiring, Cleaning, Analysis, Preprocessing, Machine Learning Techniques.

SKILLS

Technical Skills: Deep Learning, Computer Vision, Web Development, GenAI, Data Science, Machine Learning, NLP and IoT

Programming Languages: Python, C, C++, Javascript, Java, R, NextJS, NodeJS, Django, ReactJS and various frameworks.

Core Skills: Data Structures and Algorithms, Problem Solving, Critical Thinking, Higher order Physics

Super Powers: First Principles Thinking, Genuine Interest and Curiosity in Tech, Big Idea Thinking.

CS Fundamentals: OOPS, DBMS, OS, Computer Networks, System Architecture, Compiler Design,

Language Proficiency: English, Hindi, Tamil, Punjabi

EDUCATION

B.E in Computer Science Engineering (with specialization in AI and ML) *Nov 2022 - present*

SRM Easwari Engineering College, Chennai

CGPA – 9.03

PROJECTS

- **Adeptus Blog Application** - Built from scratch for the college technical club (ADEPTUS). Uses nextjs, nodejs, tailwindcss, shadcnUI
- **Building Footprint Extraction** - Focused on automating the workflow of processing raw satellite data and imagery to digitized maps. Extract building footprints, polygonize them and convert it into GIS compatible shape files. Uses advance computer vision techniques and deep learning.
- **RT Traffic Analytics** - This is a project done for the Tamil Nadu Police. Focuses on maintaining data of vehicle count by leveraging object classification, tracking and counting.
- **Simple Simulation Engine** - Basic Physics Simulation Engine built using vanilla JS
- **MS Diagnosis System** - Detection of Multiple Sclerosis from Brain MRI scan images
- **Drowsiness Detection System** - Utilizes the concepts of Computer Vision and Image Processing.
- **Resume Grader** - A system that could help resumes overcome the ATS. Integrates Google Gemini API
- **AutoAnalyze App** - Solves the hectic job of Exploratory Data Analysis.
- **Spam Classifier** - Built with Machine Learning, NLP and Data Science.

CERTIFICATIONS & ACHIEVEMENTS

- **NPTEL Certifications** – Blockchain and its Applications, Entrepreneurship Essentials, Introduction to IoT, Computer Vision
- **DPBH '23 Hackathon by Ministry of Consumer Affairs** – Successfully selected for Round II of the hackathon
- **Smart India Hackathon 2024** - Winner of the Internal Hackathon.