

TANUSH T M

AI Engineer and Web Developer
with Freelance Experience

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Innovative AI Engineer and Full Stack Developer with hands-on experience across internships, projects and freelance work. Passionate about building scalable, impactful and technically advanced solutions. Currently exploring Cloud and Web3.0.

For more detailed info, do visit: www.tanush-mahadevan.xyz

SKILLS

Technical Skills: Deep Learning, AI, Full Stack Development, Computer Vision, Data Science, LLMs, Agents & Machine Learning.

Programming Languages: Python, C, C++, Javascript, Java, Typescript, Lua, Julia, R and SQL.

Data & AI: Agentic AI, Model Development & Optimization, LLM Wrappers, RAG Architectures, custom CV usecases & Tableau

Web Dev: NextJS, React, NodeJS, Django, FastAPI, Flask, ShadcnUI, Flowbite, AceternityUI, CRUD and APIs.

CS Fundamentals: System Design, OOPS, DBMS and SQL, OS and Computer Networks

Core Skills: Data Structures and Algorithms, Problem Solving, First Principle Thinking, Higher order Physics.

Language Proficiency: English, Hindi, Tamil, Punjabi.

WORK EXPERIENCE

FREELANCE AI & WEB DEVELOPER

Kritam Creations, DataScon Solutions & other agencies | Sept 2024 – May 2025

- Worked as a **Freelance AI and Web developer on 14 gigs for 10 clients over a span of 9 months.**
- These gigs are predominantly focused on custom solutions and consulting related to **AI, Full Stack Development and Data.**
- Worked on a variety of freelance gigs such as Development of MVP and Software Products for Startups.
- End-to-end Website Development, AI Integration and Consulting, Custom Computer Vision Use cases, Landing Pages etc.

COMPUTER VISION INTERN

Infomaps, Chennai | June 2024 – Aug 2024

- **Real-Time Traffic Analytics**
 - This is a project done for the **Tamil Nadu State 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.

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.

PROJECTS

- **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. Includes camera profiling for async analysis too.
- **FluxReader.ai** - RAG based application with integrated QA, PDF voice reading, and audio transcription. Uses, Langchain, Groq, ChromaDB and gTTS.
- **Building Footprint Extraction** - Focused on automating the workflow of processing raw satellite data to digitized maps. Extract building footprints, polygonize them and convert it into GIS shape files.
- **GeXura (A CV based XR game)** - A PoC developed to showcase the capabilities of eXtended Reality in gaming. The project emulates the applications and potential in Gaming and Robotics.
- **Fine Tuning DeepSeek** - Finetuning the latest DeepSeek 7B parameter model using PEFT on cloud.
- **Product Integrity in Ecommerce** - An ML based approach to detect darkpatterns and suspicion in E-Commerce sites.
- **Adeptus Application** - Built from scratch for the Technical Club of College. Uses NextJS, tailwindCSS, shadcnUI, GaaC.
- **Drowsiness Detection System** - Utilizes the concepts of Computer Vision & Image Processing to track facial checkpoints.
- **Legitimacy in Job Posting Analysis** - Analysis of legitimacy using NLP techniques and Deep Learning models.
- **Startup Data Analysis** - Analyzing startups with total evaluation of \$1 Billion+ with 2020 data.
- **Resume Grader** - A system that could help resumes overcome the ATS. Integrates Google Gemini API.
- **Real Time Speech2Text and ASL Recognition** - Uses hybrid approach - custom trained model and an third party API.

Other projects I have done includes InfiLib (An E-learning assistant), AutoAnalyze (automates EDA), Stable Diffusion 2 Inference Analysis, Spam Classifier (A ML and NLP approach), Invictus (Official site for Technical Symposium) and many more...

EDUCATION

B.E in Computer Science Engineering (with specialization in AI and ML)

Nov 2022 - present

SRM Easwari Engineering College, Chennai

CGPA – 8.93

CERTIFICATIONS

- **DPBH '23 Hackathon by Ministry of Consumer Affairs** – Successfully qualified for the regional level hackathon.
- **Runner Up in Hack-AI-thon** – Conducted by Stella Mary's College on the theme "AI for Good".
- **Finalists of TechXcelerate 2025 BITS Pilani Hyderabad** - Finalists from a total of 650+ teams in the AI & SaaS track.
- **NPTEL Certifications** – Blockchain and its Applications, Introduction to Large Language Models, Introduction to IoT, Computer Vision & Entrepreneurship Essentials

FREELANCE EXPERIENCE

AI Engineer & Full Stack Developer

Self-Employed | Remote | 14 Gigs | 10 Clients | www.tanush-mahadevan.xyz

- Delivered over 14 successful freelance projects across AI, Data Science, and Web Development, catering to clients in the EU and IN in small to medium scale startups.
 - Specialized in developing MVPs for SaaS applications, full-stack web solutions, and integrating AI capabilities into platforms.
 - Engineered custom machine learning models and computer vision solutions tailored to unique client requirements.
 - Provided AI consulting services, guiding startups through the implementation of intelligent systems to solve niche problems.
 - Created responsive landing pages and user interfaces, enhancing user engagement and experience.
 - Maintained a client satisfaction rate exceeding 90%, with testimonials praising innovative solutions and rapid delivery.
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