TEEPAKRAAJ G

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ABOUT ME

I am a B.Tech CSE student with a strong passion for technology, especially in Machine Learning and Deep Learning, which I have pursued alongside my academics. I am a quick learner, adaptable to new AI trends, and thrive in collaborative team environments.

EDUCATION

SASTRA Deemed To Be University, B.Tech Computer Science And Engineering — Expected 2026

- **CGPA:** 8.4779

Rockford Senior Secondary School, 12 Grade — JULY 2022

- **Percentage:** 93.4% [Ranked first in school]

Sri Chaitanya Techno Schools, 10 Grade — JULY 2020

- **Percentage:** 87.00%

SKILLS

Programming Languages	C Language, C++, Python, Java, JavaScript, Typescript, HTML, CSS, SQL
Libraries and Frameworks	Tailwind CSS, Scikit-learn, PyTorch, TensorFlow, Keras, OpenCV, Flask, Django, React, Next.js
Technical Tools and Software	MATLAB, Git, Node.js, Figma
Soft Skills	Critical Thinking, Problem solving, Teamwork & Collaboration, Work Ethic

EXPERIENCE

Machine Learning and Framework Intern — 1, DEC 2024 - 31, DEC 2024
Mydsun IT and Marketing PVT LTD — *Chennai, Tamilnadu*

- Developed a real-time prawn seed detection system using Python and OpenCV, achieving 99% accuracy, significantly reducing manual labor in hatcheries.
- Automated image processing workflow (grayscale conversion, thresholding, contour detection), enabling 3x faster seed counting and improving operational efficiency.
- Enhanced adaptability by allowing dynamic threshold and seed size adjustments, making the system robust across varied lighting and background conditions.

PROJECTS

BayMax HealthCare Chatbot [Tools used: RAG, NLP, react JS, LLM] — GitHub

- GitHub: https://github.com/UnAuthDevX/BayMax-
- Developed the Baymax Chatbot by utilizing RAG for enhancing LLM with external knowledge and used NLP techniques for the Processing of the user text. By using LLM, RAG, NLP the chatbot works on the best accuracy and up-to-date in generated texts.

Live Count [Tools used: Python, OpenCV, NumPy, Matplotlib] — GitHub

- GitHub: https://github.com/TEEPAKRAAJ/Prawn-seed-detection
- Developed a real-time prawn seed counting system using OpenCV, achieving over 99% accuracy through grayscale conversion, blurring, thresholding, and contour detection.Built a post-larva shrimp seed detection system using computer vision, enhancing hatchery precision and operational efficiency.

STL File To Image Layers Generator [Tools used: Django, OpenCV, Trimesh, Matplotlib] GitHub

- GitHub: https://github.com/TEEPAKRAAJ/STL-to-Image-Slice-Generator
- Developed a web-based STL slicer using Python, Django, and Trimesh to visualize 3D model cross-sections layer-by-layer, enabling users to upload STL files and view 2D slices generated through automated image processing and rendering.

Portfolio [Tools used: Next.js, Tailwindcss, Vercel, HTML5, Typescript] GitHub

- GitHub: https://github.com/TEEPAKRAAJ/Portfolio
- Portfolio website: https://teepakraajportfolio.vercel.app/
- Developed a personal portfolio web application using Next.js, React, and Tailwind CSS. Integrated EmailJS for direct contact functionality, implemented responsive design, and deployed the site on Vercel for fast, global access. Showcases projects, skills, and contact information in a modern, user-friendly interface.

HACKATHON AND WORKSHOP CERTIFICATE

- Intel GEN AI Hackathon 2024
- PSG HACKATONIC CERTIFICATE OF PARTICIPATION
- Walmart Sparkathon
- AI for Industry Application using MATLAB® and Simulink®

COURSE COMPLETION CERTIFICATE

- Deep Learning — NPTEL
- Blockchain and its Applications — NPTEL
- Machine Learning with Python — IBM-Coursera
- Introduction to Deep Learning & Neural Networks with Keras — IBM-Coursera
- Introduction to Computer Vision and Image Processing — IBM-Coursera
- Introduction to Neural Networks and PyTorch — IBM-Coursera
- Generative AI and LLMs: Architecture and Data Preparation — IBM-Coursera
- Gen AI Foundational Models for NLP & Language Understanding — IBM-Coursera
- Tailwind CSS Specialization — Scrimba-Coursera
- Tailwind CSS Practice Project: Build a Product Card — Scrimba-Coursera
- TypeScript Variables and Data Types — Coursera Project network