# 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/TCL-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.

## 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