

P.A. SANJAI

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EXECUTIVE SUMMARY

A driven B.Tech CSE student passionate about AI and real-world problem-solving through artificial intelligence and software development. Experienced in programming, UI design, automation, and project implementation, with a strong interest in creative design. Committed to delivering innovative solutions, maintaining a strong work ethic, and continuously learning to excel in impactful technology roles.

PROJECTS

Real-Time Emotion Detection

- Built a real-time emotion detection system using Python, OpenCV, and TensorFlow.
- Implemented face detection with Haar Cascades and enhanced images through preprocessing.
- Fine-tuned a CNN (FER2013) for accurate, real-time emotion detection even in low-light conditions.
- Enabled live webcam feed analysis with real-time prediction overlay on detected faces.

AI-Powered Webcam Image Captioning

- Developed a real-time image captioning system using BLIP and Hugging Face Transformers, processing live webcam frames through OpenCV and PIL at optimized 384×384 resolution.
- Enhanced caption quality with beam search decoding and improved performance through automatic GPU/CPU switching via PyTorch.
- Implemented interactive capture controls (s to capture, q to quit) for instant caption generation and smooth user experience.

Auto Typer Tool

- Built Stealth Auto Typer using Python (Tkinter, PyAutoGUI, Keyboard) with GUI-based text loading and human-like automated typing (random delays, typos, corrections, variable speed) and real-time tracking.
- Added pause/resume hotkeys and customizable settings for smooth control and enhanced usability.

SKILLS SUMMARY

- Python
- UI/UX Design
- Java
- Deep Learning
- MySQL

EDUCATION

Dr.MGR Educational and Research Institute.

B.Tech in Computer Science Engineering - CGPA - 7.8 (5th Sem)

Jawahar Higher Secondary School(CBSE)

Higher Secondary - CBSE, Computer science - April 2022 - May 2023

Jawahar Higher Secondary School(CBSE)

SSLC, CBSE April 2020 - March 2021
