

# Ajay T Shaju

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## Skills

**Programming Languages:** Python, C, LaTeX  
**Operating Systems:** Windows, Linux  
**Libraries/Frameworks:** Numpy, TensorFlow, Pandas, Matplotlib, OS, Open-CV, Tkinter  
**Technical Tools:** VS Code, Jupyter Notebook, Docker, MS Office Apps, G-Suite Apps, Photoshop, Figma  
**Interpersonal Skills:** Communication, Empathy, Sociability, Persuasion, Active Listening  
**Analytical Skills:** Problem Solving, Observation, Decision Making  
**Management Skills:** Trello, Notion, Time Management, Leadership, Patience

## Projects

### Violence Detection from Videos (using Attention Mechanism)

August 2023 - May 2024

B.Tech Main Project

[Source Code](#) - [GitHub](#)

- Developed a custom *neural network* to detect violence in videos using TensorFlow Deep Learning framework
- Used a functional approach for building the neural network and combined LSTM with CNN (with attention mechanism) for efficiency.

### Marks2CSV: A tool to convert marks in answer sheets to CSV format using OCR

January 2023 - June 2023

B.Tech Mini Project

[Source Code](#) - [GitHub](#)

- Addresses the time-consuming task of mark data entry of our teachers in the college
- Developed and deployed a customized software solution that digitized teacher's mark data entry process, resulting in time savings of 5+ hours per week and increased data accuracy by 98%
- Accepted and Presented at 1st International Conference on Trends in Engineering Systems and Technologies (ICTEST24) organized by GMEC, Thrikkakara, Ernakulam, Kerala, India

### Emotion2Emoji: A system to predict and display emojis based on the facial emotion

January 2024 - February 2024

Personal Project

[Source Code](#) - [GitHub](#)

- A Computer Vision app that makes people smile, and express themselves.
- Used a combination of high-end deep learning libraries
- System responds to the emotional changes in the user's face in near real-time
- Can detect emotions of multiple faces simultaneously

## Job Simulations

### JPMorgan Chase & Co. Agile Job Simulation on Forage

August 2024

- Drafted 8 user stories using Trello and prioritized them (Story Points) by estimating the relative level of effort required.
- Ran the Scrum team's daily standup to effectively plan the day and energize the team members.
- Conducted a sprint review to gather feedback on the Scrum's work and a sprint retrospective to align on opportunities for improvement in future sprints.

## Education

CGPA	<b>Bachelor of Technology (Artificial Intelligence &amp; Data Science, AD)</b> , St. Joseph's College of Engineering	2020 - 2024
7.8/10	& Technology (APJAKTU), Palai, Kottayam, Kerala, India	
84%	<b>Higher secondary</b> , Sanjos Senior Secondary School, Palai, Kottayam, Kerala, India	2020
85%	<b>Matriculation</b> , Sanjos Senior Secondary School, Palai, Kottayam, Kerala, India	2018

## Certificates

2023	<b>British Council English Score Certificate</b> , Core Skills CEFR C1 (539) and Speaking CEFR B2 (428)	British Council
2023	<b>Deep Learning with MATLAB</b> , Advanced Deep Learning Course using MATLAB	MathWorks
2023	<b>Deep Learning Onramp(MATLAB)</b> , Introduction to Deep Learning with MATLAB	MathWorks
2022	<b>Python For Data Science</b> , Intermediate course to do Data Science with Python	NPTEL IIT-M India
2021	<b>Joy of Computing Using Python</b> , Introduction to Python Programming	NPTEL IIT-M India

## Achievements

2023-24	<b>Medium Website</b> , Technical Blogs	Author
2020-24	<b>Talks on AI &amp; DS</b> , Various programs conducted across college(Offline & Online)	Certificates
2022-23	<b>IEDC Summit '22, ASTHRA '22-23</b> , Annual Entrepreneurship Summit/College Technical Festival(National Level)	Designer

## Languages

**Malayalam** Native proficiency (Mother Tongue, Public Speaking)  
**English** Professional proficiency (CEFR Tested, Contribution to Blender FOSS Repository)