Ajay T Shaju

+91 9567117161 | ajaytshaju@gmail.com | 🌐 004ajay.github.io | github.com/004Ajay | linkedin.com/in/ajay-t-shaju | Ⓜ @ajaytshaju

Skills

Programming Languages:	Python, C
Operating Systems:	Windows, Linux
Libraries/Frameworks:	Numpy, TensorFlow, Pandas, Matplotlib, OS, Open-CV, Tkinter
Technical Tools:	Visual Studio Code, Jupyter Notebook, 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:	Time Management, Leadership, Patience

Projects

Violence Detection from Videos (using Attention Mechanism)   *August 2023 - April 2024*
B.Tech Main Project   ***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.
- Tools Used: Python, TensorFlow, OpenCV, tqdm, Scikit-Learn, Numpy, Pandas, Matplotlib, Seaborn

Marks2CSV: A tool to convert marks in answer sheets to CSV format using OCR   *January 2023 - June 2023*
B.Tech Mini Project   ***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
- Tools Used: Python, TensorFlow, Pandas, OpenCV, Numpy, Flask, and Matplotlib
- Project GitHub: github.com/004Ajay/Marks2CSV_S6_Mini_Project

Emotion2Emoji: A system to predict and display emojis based on the facial emotion   *January 2024 - February 2024*
Personal Project   ***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
- Tools Used: Python, TensorFlow, DeepFace, OpenCV
- Project GitHub: https://github.com/004Ajay/Emotion2Emoji

Education

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

Certificates

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

Achievements

2023-24	**Medium Website**, Technical Blogs	*Author*
2020-24	**Talks about AI & DS**, Various programs conducted across college(Offline & Online)	*Certificates*
2022-23	**ASTHRA 2022, 2023** , College Technical Festival(National Level)	*Designer*
2022	**IEDC Summit 2022**, An Annual Entrepreneurship Summit, March 2022	*Designer*

Languages

Malayalam	Native proficiency (Mother Tongue)
English	Professional proficiency (CEFR Tested)