

Ajay T Shaju

Artificial Intelligence & Data Science Engineer

☎ +91 9567117161 | ✉ ajaytshaju@gmail.com | 🌐 sites.google.com/view/004ajay | 🐙 github.com/004Ajay | 💼 linkedin.com/in/ajay-t-shaju

Skills

Programming Languages: Python, LaTeX
Operating Systems: Linux, Windows
Libraries/Frameworks: Pandas, OS, Numpy, BeautifulSoup, Request, Matplotlib, TensorFlow, Open-CV, Playwright, LangChain
Technical Tools: VS Code, Jupyter Notebook, Docker, MS Office Apps, G-Suite Apps, Photoshop, Excalidraw, Figma
Abilities: Communication, Empathy, Sociability, Problem Solving, Observation, Leadership, Time Management

Experience

ITC LSTC | Data Science Trainee

Peenya, Bengaluru, India | 2nd Dec 2024 - Present

- **Deployed a fine-tuned Large Language Model(LLM) Locally** in the **internal network using Ollama and Open WebUI**.
- Automated IT security compliance checks on a development system using **shell scripting, scheduled weekly via cron**, generating PDF reports and log files, and **reducing manual effort by 4-5 hours per month**.
- Developed a **web scraping pipeline** that extracted structured data from three large medicine information websites, improving **workflow efficiency by 50% through parallel processing and optimized requests**.
- Engineered a **high-speed PDF extraction system** that structured complex data with a **7-second processing time for a 40-page document**, ensuring high accuracy and efficiency.

Projects

Inkwell: AI & Retrieval-Augmented Generation (RAG)-Based Personal Writing Assistant

June 2025

AI Writing Assistant

[Source Code - GitHub](#)

- Designed an **alternative to fine-tuning LLMs** by combining RAG with a custom **"Style-Augmented Generation"** approach to **mimic personal writing style** from diverse blog documents.
- Implemented an AI assistant that prioritizes generating text in the **author's style over generic context-based responses, moving beyond typical RAG pipelines**.

Violence Detection from Videos (using Attention Mechanism)

August 2023 - May 2024

Video Surveillance | 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

Mark Entry Automation | B.Tech Mini Project

[Source Code - GitHub](#)

- **Addresses the time-consuming task of mark data entry** of our teachers in the college
- Developed a customized software, resulting in **time savings of 5+ hours per week** with accuracy by 98%
- **Presented and Accepted at ICTEST24 Conference** organized by GMEC, Thrikkakara, Ernakulam. Kerala, India

Automated Financial Tracker using Gmail, Zapier, and Google Sheets

October 2024

Personal Finance Dashboard Automation

[Medium Blog](#)

- Collected, cleaned, and organized **950+ financial transaction data** using specific steps in **MS Excel and Python**.
- Automated personal finance tracking by **integrating Gmail and Google Sheets via Zapier** to streamline financial data logging.
- Designed a Google Sheets dashboard with **Donut and Bar Charts, enabling real-time insights** across categories.

Education

7.8/10	Bachelor of Technology (Artificial Intelligence & Data Science, AD) , SJCTET, Palai, Kerala, India	2020 - 2024
84%	Higher secondary , Sanjos Senior Secondary School, Palai, Kerala, India	2020
85%	Matriculation , Sanjos Senior Secondary School, Palai, Kerala, India	2018

Certificates

2024	Career Essentials in Data Analysis by Microsoft-LinkedIn , ETL, Analysis, Visualization of Data	LinkedIn
2023	British Council English Score Certificate , Core Skills CEFR C1 (539) and Speaking CEFR B2 (428)	British Council
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

2023-25	Medium Website , Technical Blogs	Author
2020-24	Talks on AI & DS , Various programs conducted across college(Offline & Online)	Certificates
2022-23	IEDC Summit '22, ASTHRA '22-23 , 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)