

Ajay T Shaju

Artificial Intelligence & Data Science Engineer

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Skills

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

Experience

ITC LSTC | Data Science Trainee

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

- **Deployed Large Language Model Locally** in the **internal network using Ollama and Open WebUI**.
- **Automated IT security checks** across work computers using Python, Batch (Windows), and Bash (Linux), implementing a master-client system with scheduled execution via cron jobs, reducing redundant IT security tasks by 4-5 hours per week.
- 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

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

Mark Entry Automation

[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%
- Accepted and Presented 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

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

2023-24	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)