Ajay T Shaju

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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.
- **Diagnosed and resolved critical bugs** in a large-scale Python project by leveraging Linux search techniques.

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 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		
7.8/10	**Bachelor of Technology (Artificial Intelligence & Data Science, AD)**, *St. Joseph's College of Engineering & Technology (APJAKTU), Palai, Kottayam, Kerala, India*	*2020 - 2024*
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)