

Irfan PJ

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SUMMARY

I am a highly motivated and creative **AI & Data Science student** with hands-on experience in building intelligent systems that combine machine learning, deep learning, and automation. I specialize in end-to-end project development—from prompt engineering and AI agent orchestration to backend automation and user interaction via chatbots, APIs, or real-time systems. Known for my logical thinking, adaptability, and collaborative mindset, I continuously explore new technologies like LangChain, n8n, and generative models to solve real-world problems with scalable, production-ready solutions.

TECHNICAL SKILLS

Programming Languages:

- Python, Java, C, C++, SQL, HTML

AI & Machine Learning:

- **Machine Learning:** Scikit-learn, TensorFlow, PyTorch, XGBoost
- **Deep Learning:** Keras, CNNs, LSTMs, OpenCV, YOLOv5
- **NLP & Generative AI:** Hugging Face Transformers, GPT-Neo, Prompt Engineering, RAG pipelines
- **AI Agents & Automation:** LangChain Agents, CrewAI, OpenAI, Pinecone, RAG, context-aware LLM apps
- **Intelligent Workflows:** n8n (custom flows, Upserts, Telegram bots, Airtable sync)

Data Science & Analytics:

- **Data Manipulation & Cleaning:** Pandas, NumPy
- **Data Visualization:** Matplotlib, Seaborn, Plotly

Software Development & Tools:

- **Web Development & API:** Flask, FastAPI, Streamlit, React
- **Database & Storage:** MySQL, SQLite, MongoDB, Airtable, Google Drive integration
- **Cloud & DevOps:** Google Cloud, AWS (basics), REST API integration
- **Productivity & Dev Tools:** Git, GitHub, Jira, VS Code

AI Content Engineering & ID Generation:

- Story Dialogue Generation (AI Dungeon), Interview Drafting (HR Agent), ID parsing from CVs
- Structured JSON parsing, PDF data extraction, Airtable linking and dynamic field population
- Voice agents TTS (ElevenLabs), Telegram + calendar-integrated AI appointment bots

PROJECTS

HR Agent (AI-Powered Recruitment Workflow)

LLM Automation Project

n8n, Airtable, OpenAI GPT-4, LangChain, Gmail, Google Drive

- Automated candidate screening and interview scheduling using LangChain and OpenAI GPT-4.
- Parsed CVs, matched candidates to roles, and logged data into Airtable.
- Integrated Gmail, Google Calendar, Telegram, and outbound calls for end-to-end HR communication.

TAPACD (Theater Anti-Piracy AI Camera Detection)

Computer Vision Project

Python, YOLOv5, Flask, OpenCV

- Built a real-time object detection system to identify phone cameras in theaters using YOLOv5.
- Processed live surveillance feeds via Flask backend and logged detections.
- Tuned model performance for low-light environments and handheld camera angles.

ClinIlImora (RAG-Based Healthcare Chatbot)

AI Chatbot Project

n8n, Pinecone, OpenAI GPT-4, LangChain, Telegram

- Developed a Retrieval-Augmented Generation chatbot to assist patients with medical queries.
- Used Pinecone for context-aware document search and LangChain for prompt orchestration.
- Automated Telegram replies and Airtable logs for appointment and FAQ handling.

Website Auditor AI Agent

AI Project

Python, CrewAI, BeautifulSoup, Requests, CSSutils

- Built an autonomous agent using CrewAI to analyze websites for design and accessibility issues.
- Scraped and parsed HTML/CSS content to detect poor structure and styling practices.
- Generated lightweight reports for developers to improve UI/UX compliance.

AI Dungeon Story Generator

Interactive Web App

Python, Hugging Face Transformers, GPT-Neo2, Streamlit

- Integrated GPT-Neo2 to generate branching narratives based on user choices.
- Maintained story coherence using memory-aware logic in a Streamlit interface.
- Deployed as an interactive web app for real-time storytelling experiences.

Kanban Board Stock Management

Machine Learning Project

Python, LSTM, TensorFlow, Flask, React

- Trained an LSTM model to forecast stock levels and detect supply chain trends.
- Developed a Flask API for model inference and real-time updates.
- Created a dynamic React dashboard to visualize inventory flow and predictions.

EXPERIENCE

AI Intern

Jan 2025 – Mar 2025

Ilmora

Remote

- Contributed to the development of AI-powered brand assets and automation tools for creative agencies.
- Designed prompt-based content generation pipelines for visual branding and marketing using LLMs and diffusion models.
- Collaborated on R&D for AI video generation and logo animation workflows aligned with the company's creative vision.

Machine Learning Intern

May 2025 – Jun 2025

Cognifyz Technologies

Remote

- Worked on real-world machine learning tasks including data preprocessing, model training, and evaluation.
- Built predictive models using Python, Scikit-learn, and Pandas for structured datasets.
- Contributed to internal projects involving classification and regression analysis.

EDUCATION

MES College of Engineering

Kuttipuram

B.TECH in Artificial Intelligence and Data Science , SEMESTER VIII

2022-2026

Sree Krishna Higher Secondary School, Guruvayur

Thrissur

Higher Secondary Education

2021-2022

Blooming Buds Bethania (CBSE), Vellithiruthy

Kunnamkulam

Board Examination

2020

CERTIFICATIONS

- First Prize Winner in Code Bytes - CESA XYBEREX 2.0
- Certificate of Completion – 1 Million Prompts Program by Dubai Future Foundation (Prompt Engineering for AI Systems)
- Certificate – Transformer Models and BERT Model (Google Cloud, Jun 2025, Code: 8443481)
- Certificate of Completion - Python for Data Science, AI & Development
- Certificate of Participation - ML Workshop at IEEE Student Chapter