

# Irfan PJ

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## SUMMARY

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I am a passionate and driven **AI & Data Science student** with a strong foundation in programming, machine learning, and data-driven problem solving. I thrive in both individual and collaborative projects, applying logical thinking and analytical skills to build efficient and scalable solutions. My adaptability, time management, and eagerness to learn new technologies make me an asset to any team.

## TECHNICAL SKILLS

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### Programming Languages:

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

### AI & Machine Learning:

- **Machine Learning:** Scikit-learn, TensorFlow, PyTorch
- **Deep Learning:** Keras, OpenCV, YOLO
- **Natural Language Processing:** NLTK, Hugging Face Transformers

### Data Science & Analytics:

- **Data Visualization:** Matplotlib, Seaborn
- **Data Manipulation:** Pandas, NumPy

### Software Development & Tools:

- **API Development:** Flask, FastAPI
- **Database Management:** MySQL, SQLite, MongoDB
- **Cloud Platforms:** AWS, Google Cloud
- **Version Control:** Git, GitHub

## PROJECTS

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### TAPACD (Theater Anti-Piracy AI Camera Detection)

*Computer Vision Project*

*Python, YOLOv5, Flask, OpenCV*

- Developed an AI-powered system to detect unauthorized phone cameras in theaters.
- Utilized YOLOv5 for real-time object detection and tracking of recording devices.
- Implemented a Flask-based backend to process live camera feeds and log detections.
- Designed a frontend interface for monitoring detection alerts and logs.

### Restaurant Data Analysis and Machine Learning

*Machine Learning and Data Science Project*

*Python, Scikit-learn, Pandas, NumPy, Flask, Matplotlib, Geopandas*

- Built models for rating prediction, recommendation, cuisine classification, and location analysis.
- Developed regression models for rating prediction using Linear Regression and Decision Tree.
- Implemented a content-based recommendation system for personalized restaurant suggestions.
- Trained classification models for cuisine identification, evaluated using precision, recall, and accuracy.
- Performed geographical analysis of restaurant distributions and extracted insights on regional trends.

### Kanban Board Stock Management

*Machine Learning Project*

*Python, LSTM, TensorFlow, Flask, React*

- Developed an AI-powered Kanban Board for stock management using LSTM neural networks.
- Implemented a time-series forecasting model using LSTM to predict stock fluctuations.
- Integrated a Flask-based API to handle model inference and serve predictions.
- Built an interactive frontend using React to visualize stock trends and alerts dynamically.
- Used TensorFlow and Keras for LSTM model training and optimization.

EXPERIENCE

<b>AI and Machine Learning Developer</b> <i>Independent / Academic Work</i> Developed AI-powered solutions, including TAPACD (Theater Anti-Piracy AI Camera Detection). Implemented object detection models like YOLO for real-time surveillance applications. Built and optimized deep learning models using TensorFlow and PyTorch.	Jan 2024 – Present Remote
<b>Open-Source Contributor</b> <i>GitHub, Kaggle</i> Contributed to open-source AI projects and participated in Kaggle competitions. Developed and fine-tuned machine learning models for data analysis and optimization. Collaborated with global developers to enhance AI-based repositories.	Aug 2023 – Present Remote
<b>AI Hackathon Participant</b> <i>Various Competitions</i> Developed innovative AI solutions in object detection and NLP under time constraints. Designed and deployed AI models using Python, TensorFlow, and OpenCV. Presented AI-based solutions to industry experts and received constructive feedback.	2023 Remote

EDUCATION

<b>MES College of Engineering</b> <i>B.TECH in Artificial Intelligence and Data Science , SEMESTER VII</i>	Kuttipuram 2022-2026
<b>Sree Krishna Higher Secondary School, Guruvayur</b> <i>Higher Secondary Education</i>	Thrissur 2021-2022
<b>Blooming Buds Bethania (CBSE), Vellithiruthy</b> <i>Board Examination</i>	Kunnamkulam 2020

CERTIFICATIONS

<ul style="list-style-type: none"><li>• R Programming for Beginners (Certificate Code: 7722705)</li><li>• Apache Pig 101 - Cognitive Class (Issued by IBM Developer Skills Network)</li><li>• Accessing Hadoop Data Using Hive - Cognitive Class (Issued by IBM Developer Skills Network)</li><li>• First Prize Winner in Code Bytes - CESA XYBEREX 2.0</li><li>• Apache Hive - Data Warehouse Software for Reading, Writing, and Managing Large Datasets (Issued by IBM)</li><li>• Apache Pig - High-Level Platform for Creating Programs that Run on Apache Hadoop (Issued by IBM)</li><li>• AI and ML Workshop Certificate</li><li>• Certificate of Completion - Python for Data Science, AI Development</li><li>• Certificate of Participation - ML Workshop at IEEE Student Chapter</li></ul>	
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