

Achu Raj

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PROFILE

Aspiring ML Engineer with hands-on experience in Python-based automation, predictive modeling, and real-time computer vision systems, Machine learning , Deep Learning. Passionate about building saleable ML solutions that solve real-world problems.

EDUCATION

Certification in Data Science | Luminar Technolab Pvt Ltd | 2024–2025

- ◆ Focus Areas: Machine Learning, Deep Learning, NLP, Computer Vision, Data Management, Power BI, SQL
- ◆ Worked on model training and evaluation workflows, contributing to baseline model development and performance tuning.

Bachelor of Computer Applications (BCA) | Kerala University | 2021–2024

CERTIFICATION

Applied Data Science with Python Specialization, [Luminar Technolab Pvt Ltd](#) – Jan 2025 ([link](#))

TECHNICAL SKILLS

- ◆ **Programming:** Python, SQL, JavaScript
- ◆ **ML & Data Science:** Pandas, NumPy, Scikit-learn, OpenCV, MediaPipe
- ◆ **Frameworks & Tools:** Streamlit, Django, Power BI, MySQL, SQLite, AWS, UiPath
- ◆ **Concepts:** Machine Learning, Deep Learning, NLP, Computer Vision, Data Visualization

EXPERIENCE

Inditronics Pvt Ltd | Pune, India

Data Analyst Intern | June 2025 – oct 2025

- ◆ Led the data preparation for an audio-based ML project by labeling, preprocessing, and performing quality checks on a large-scale dataset's.
- ◆ Pioneered the development of custom Python automation scripts that streamlined repetitive data processing tasks, boosting team productivity by over 40% and minimizing manual errors.
- ◆ Designed and delivered an interactive Power BI dashboard to communicate key insights, enabling the team to make data-driven decisions and improving report clarity for stakeholders.

PROJECTS

Driver Drowsiness Detection System oct-2025

- ◆ Engineered a real-time system using Open-CV and Media-pipe to classify driver states (Focused, Distracted, Drowsy) through facial landmark and eye-aspect-ratio analysis.
- ◆ Implemented eye aspect ratio (EAR) and mouth opening ratio algorithms for accurate state classification
- ◆ Improved processing speed by 15% by optimizing the image processing pipeline, enabling smoother real-time video analysis.
- ◆ Tools: Python, Open-CV, Media-pipe, NumPy

Sales Forecasting System Jan-2025

- ◆ Developed and trained a Random Forest Regression model on historical sales data, achieving 82% prediction accuracy.
- ◆ Feature engineering and hyperparameter tuning to optimize model performance
- ◆ end-to-end deployment, creating an interactive Stream-lit web application to visualize forecasts
- ◆ Tools: Python, Scikit-learn, Pandas, Streamlit, Matplotlib

Student Management System sep-2025

- ◆ Spearheaded the design and development of a full-stack Django application, managing the complete software life cycle from concept to deployment.
- ◆ Full-stack web application with user authentication, admin panel, and student record management
- ◆ Implemented CRUD operations with Django ORM and SQLite database
- ◆ Tools: Django, Python, SQLite, HTML, CSS, JavaScript

LANGUAGE English (Professional Proficiency) Malayalam (Native Proficiency)