MOHAMMED AAQIL RAYYAN

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GitHub | Portfolio

Professional Summary

Motivated AI and Data Science graduate focused on machine learning, computer vision and natural language processing. Strong foundations in mathematics and applied statistics support my ability to design and evaluate models through academic projects and a data-driven internship. I hold respected certifications from IBM, Imperial College London, the University of Michigan and other leading institutions. Clear communication and thoughtful documentation help me turn analytical insights into helpful solutions that improve user experience and support confident decision-making.

Education

Bachelor of Computer Applications (BCA)
Yenepoya University, Mangalore — *2022–2025 | CGPA: 8.73*
Specialisation in robotics, machine learning and artificial intelligence

Experience

Data Analyst Intern
Quest Innovative Solutions Pvt. Ltd., Mangalore
Mar 2025 – May 2025
- Cleaned and prepared datasets using Pandas, resolving missing values and formatting issues.
- Carried out exploratory data analysis with NumPy and Pandas to uncover useful insights.
- Created visual reports with Matplotlib and Seaborn to highlight key trends.
- Built reusable analysis workflows in Jupyter Notebook with clear documentation.
- Worked closely with mentors and colleagues to present findings and strengthen the reliability of results.

Skills

Programming : Python, C++, JavaScript, TypeScript, HTML, CSS, SQL
Machine Learning and AI : Supervised and unsupervised learning, neural networks, computer vision, natural language processing, retrieval-augmented generation, model evaluation
Tools and Frameworks : FastAPI, YOLOv8, OpenCV, TensorFlow, Keras, FAISS, Pandas, NumPy, Matplotlib, Streamlit, Git

Data & Databases : Data cleaning and analysis, exploratory data analysis, MySQL
Mathematics and Statistics : Linear algebra, probability, applied statistics for model development
Communication and Research : Technical documentation, teamwork, analytical interpretation, problem-solving

Projects

StudyMate — RAG-Powered AI Learning Assistant
Python, FastAPI, FAISS, Sentence Transformers, HTML/CSS/JS

- Designed a retrieval-augmented generation system that answers questions from uploaded documents using semantic search over vector embeddings.
- Built a web interface for document upload and interactive responses, with speech input and output for accessibility.

Real-Time AI Object Detection
YOLOv8, OpenCV

- Developed a live object detection tool with webcam and IP camera support, offering quick and accurate visual feedback.
- Implemented frame processing and on-screen overlays to display class labels and confidence scores during detection.

The Career Copilot — AI Career Guidance Tool
Next.js, TypeScript, REST APIs

- Produced a career exploration platform with resume checks, job suggestions and personalised pathways for students and job-seekers.
- Designed a clean and responsive interface that helps users navigate insights with confidence.

Workshops and Certifications

Workshops
- Robotics and embedded systems workshop, building BO cars using Arduino Uno and NodeMCU, Yenepoya University
- Power BI visual analytics workshop led by an IIT alumnus
- Microsoft Azure training covering AI, data, cloud and security fundamentals

Certifications
- **Machine Learning with Python** — IBM
- **Introduction to Deep Learning and Neural Networks** — IBM
- **Mathematics for Machine Learning: Linear Algebra** — Imperial College London
- **An Intuitive Introduction to Probability** — University of Zurich
- **Fundamentals of Reinforcement Learning** — University of Alberta
- **Introduction to Artificial Intelligence** — IBM
- **Python for Everybody Specialisation (selected courses)** — University of Michigan
- **Exploratory Data Analysis for Machine Learning** — IBM

All verified certificates available at: *GitHub – Certificates Repository*