

Mohammed Aaqil Rayyan

Computer Science Graduate – Artificial Intelligence & Machine Learning

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 Github

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SUMMARY

Driven and detail-oriented Computer Science graduate specialising in artificial intelligence, machine learning, and computer vision. Experienced in developing end-to-end AI systems, real-time detection pipelines, and retrieval-augmented applications. Strong analytical mindset with proven ability to translate complex data into practical, user-focused solutions. Passionate about using ethical AI to improve society and simplify everyday tasks.

EDUCATION

Bachelor of Computer Applications (BCA)

Yenepoya University, Mangalore

2022–2025 | CGPA: 8.73

Specialisation in Robotics, Machine learning and Artificial Intelligence

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

WORKSHOPS

- Robotics & Embedded Systems (Arduino Uno, NodeMCU) – Yenepoya University
- Power BI Visual Analytics – Industry Workshop
- Microsoft Azure AI & Cloud Fundamentals Training

LANGUAGE

- English - B2 - Upper Intermediate
- Hindi - B1 - Intermediate
- Malayalam - Native
- Tamil - A2 - Conversational
- Arabic - A1 - Basic

EXPERIENCE

Data Analyst Intern

Quest Innovative Solutions Pvt. Ltd, Mangalore

March 2025 – May 2025

- Cleaned and prepared datasets using Pandas, improving data consistency and reducing missing values by 95%.
- Conducted exploratory data analysis using NumPy and Matplotlib to uncover actionable insights for internal projects.
- Designed and presented visual dashboards, enabling stakeholders to make decisions 20–30% faster based on data-driven insights.
- Developed reproducible analysis workflows in Jupyter Notebook with clear documentation for long-term usability.
- Collaborated in a cross-functional team to ensure findings aligned with business goals.

PROJECTS

StudyMate – RAG-Powered AI Learning Assistant

Python, FastAPI, FAISS, Sentence Transformers, Speech Recognition

- Built a retrieval-augmented generation system to provide accurate question answering from uploaded study materials.
- Designed a clean web interface with voice input/output for enhanced accessibility.
- Improved document search accuracy using semantic vector embeddings.

Real-Time AI Object Detection

YOLOv8, OpenCV

- Developed live multi-camera object detection with responsive bounding-box overlays.
- Achieved real-time inference speed on standard hardware by optimising frame processing pipelines.
- Provided configurable alerts and performance logs for further analysis.

The Career Copilot – AI Career Guidance Platform

Next.js, TypeScript, REST APIs

- Created an AI-supported tool offering personalised roadmaps and job suggestions for students and job-seekers.
- Implemented resume analysis and dynamic content rendering for a seamless user experience.

SKILLS

Programming: Python, C++, JavaScript, TypeScript, SQL, HTML, CSS

AI / Machine Learning: Supervised & unsupervised learning, neural networks, RAG systems, computer vision, NLP, model evaluation

Tools & Frameworks: FastAPI, YOLOv8, OpenCV, TensorFlow, Keras, FAISS, Pandas, NumPy, Matplotlib, Streamlit, Git

Data & Databases: MySQL, data cleaning, exploratory data analysis

Mathematics: Linear algebra, applied statistics, probability

Soft Skills: Research, technical documentation, teamwork, problem-solving, clear communication