

Mohammed Aaqil Rayyan

Computer Science Graduate

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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 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

LANGUAGE

- English
- Hindi
- Malayalam
- Tamil

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.

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.

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