

MUHAMMED AKBAR MMK

AI/ML Specialist | Java Full Stack Developer

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PROFESSIONAL SUMMARY

Artificial Intelligence and Machine Learning enthusiast with a strong foundation in Python, Machine Learning, Deep Learning, Natural Language Processing, and Computer Vision, combined with hands-on experience in developing AI-driven applications and intelligent systems. Experienced in building real-world projects such as traffic sign recognition systems and AI chatbots, achieving high accuracy and reliable performance. Additionally, brings 1 year of experience as a Java Full Stack Developer using Java, Spring Boot, Angular, RESTful APIs, and MySQL, enabling end-to-end development and deployment of intelligent, scalable solutions. Passionate about data-driven problem-solving, continuous learning, and applying AI/ML techniques to solve real-world challenges.

EDUCATION

Artificial Intelligence and Machine Learning

November 2025 – Present

Learners Point Academy, Dubai

Bachelor of Computer Applications (BCA)

June 2020 – May 2023

Specialization: Robotics, Machine Learning and Artificial Intelligence with Microsoft
Yenepoya (Deemed to be University), Mangalore, Karnataka

SKILLS AND INTERESTS

Programming Languages

Java, Java 8+, JavaScript (ES6+), TypeScript, Python

Front-End Technologies

Angular 12+, HTML5, CSS3, Bootstrap 5, Responsive Web Design

Back-End Technologies

Spring Boot, Spring MVC, Spring Data JPA, Hibernate ORM,
Microservices Architecture

API Development

RESTful API Design, API Integration, Postman

Database Technologies

MySQL, MongoDB, Database Design, Data Modelling,
Query Optimization

Cloud & DevOps

AWS (EC2, S3), Microsoft Azure Fundamentals,
Git, GitHub, Maven, npm

AI & Machine Learning

Python, Machine Learning, Deep Learning, Natural Language Processing (NLP),
Data Science, Data Visualization

PROJECTS

Student Management System

March 2024 – May 2025

Project Completed

Quest Innovative Solutions

- Role: Full Stack Developer
- Tools & Technologies: Angular, TypeScript, Spring Boot, Spring Data JPA, MySQL, Bootstrap, RESTful APIs, JWT Authentication, PDF Generation
- Developed a full-stack web application managing 500+ student records for an educational client, implementing CRUD operations and role-based access control using JWT.
- Implemented real-time search functionality and automated PDF report generation, producing 100+ documents daily to enhance system usability.
- Optimized database queries, reducing page load time by 50% and significantly improving application responsiveness.

- Delivered an end-to-end full stack solution integrating SPA-based front-end, backend microservices, and database layers.

Login and Registration System

Project Completed

Role: Full Stack Developer

December 2025 – January 2026

- Tools & Technologies:** Java, Spring Boot, Spring MVC, Spring Data JPA, MySQL, HTML, CSS, Bootstrap, RESTful APIs,
- Developed a secure full-stack web application enabling user registration, login, and role-based access control.
- Implemented password encryption and input validation to enhance security and prevent unauthorized access.
- Built a responsive front-end using Bootstrap, providing a user-friendly interface for account management.
- Integrated backend RESTful services with MySQL database to efficiently handle user data and authentication processes.

Traffic Sign Detection and Recognition System

Project Completed

October 2022 – February 2023

Yenepoya University

- Tools & Technologies:** Python, OpenCV, Machine Learning, Image Processing, Computer Vision
- Developed a real-time traffic sign detection and recognition system achieving 92% accuracy across 20+ traffic sign categories at 30 FPS.
- Implemented computer vision and pattern recognition algorithms for feature extraction and classification.

AI Chatbot Using Python

Project Completed

January 2026

Self

- Role:** Developer
- Tools & Technologies:** Python, NLTK, Scikit-learn, JSON, Pickle
- Developed an AI-based chatbot capable of understanding user queries and generating automated responses using Natural Language Processing.
- Implemented intent classification, tokenization, and response generation to handle multiple conversation scenarios efficiently.
- Created a command-line interface for interactive user communication and tested the chatbot for various queries to ensure accuracy and reliability.

WORK EXPERIENCE

Java Full Stack Developer Trainee – Quest Innovative Solutions Pvt. Ltd. March 2024 – May 2025

Kerala, India

- Designed and developed scalable web applications using Java, Spring Boot, and Angular, improving overall system performance by 30% through full stack development.
- Built RESTful APIs enabling seamless front-end and back-end integration, processing 1,000+ requests daily in a production-like environment.
- Designed normalized MySQL database schemas and applied query optimization techniques, reducing query execution time by 40% and improving database efficiency.
- Collaborated in a 6-member Agile team to troubleshoot, refactor, and optimize code, reducing production bugs by 25% through full stack best practices.

CERTIFICATIONS

Microsoft Azure Fundamentals (AZ-900) – Microsoft

KHDA in Artificial Intelligence and Machine Learning

LANGUAGES

English – Fluent

Hindi – Basic

Malayalam – Native

Arabic - Basic