

# 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

<b>Artificial Intelligence and Machine Learning</b> Learners Point Academy, Dubai	November 2025 – Present
<b>Bachelor of Computer Applications (BCA)</b> Specialization: Robotics, Machine Learning and Artificial Intelligence with Microsoft Yenepoya (Deemed to be University), Mangalore, Karnataka	June 2020 – May 2023

## SKILLS AND INTERESTS

<b>Programming Languages</b>	Java, Java 8+, JavaScript (ES6+), TypeScript, Python
<b>Front-End Technologies</b>	Angular 12+, HTML5, CSS3, Bootstrap 5, Responsive Web Design
<b>Back-End Technologies</b>	Spring Boot, Spring MVC, Spring Data JPA, Hibernate ORM, Microservices Architecture
<b>API Development</b>	RESTful API Design, API Integration, Postman
<b>Database Technologies</b>	MySQL, MongoDB, Database Design, Data Modelling, Query Optimization
<b>Cloud &amp; DevOps</b>	AWS (EC2, S3), Microsoft Azure Fundamentals, Git, GitHub, Maven, npm
<b>AI &amp; Machine Learning</b>	Python, Machine Learning, Deep Learning, Natural Language Processing (NLP), Data Science, Data Visualization

## PROJECTS

<b>Student Management System</b> <i>Project Completed</i>	March 2024 – May 2025 <i>Quest Innovative Solutions</i>
<ul style="list-style-type: none"><li>• Role: Full Stack Developer</li><li>• Tools &amp; Technologies: Angular, TypeScript, Spring Boot, Spring Data JPA, MySQL, Bootstrap, RESTful APIs, JWT Authentication, PDF Generation</li><li>• Developed a full-stack web application managing 500+ student records for an educational client, implementing CRUD operations and role-based access control using JWT.</li><li>• Implemented real-time search functionality and automated PDF report generation, producing 100+ documents daily to enhance system usability.</li><li>• Optimized database queries, reducing page load time by 50% and significantly improving application responsiveness.</li></ul>	

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

### Login and Registration System

December 2025 – January 2026

*Project Completed*

**Role:** Full Stack Developer

- **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

October 2022 – February 2023

*Project Completed*

*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

January 2026

*Project Completed*

*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

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**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

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Microsoft Azure Fundamentals (AZ-900) – Microsoft

KHDA in Artificial Intelligence and Machine Learning

## LANGUAGES

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English – Fluent  
Hindi – Basic  
Malayalam – Native  
Arabic - Basic