

MUHAMMED AKBAR MMK

AI/ML SPECIALIST AND JAVA FULL STACK DEVELOPER

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Phone number: +91 6238793843 | Current Locality: Calicut, Kerala, India | Indian National

Professional Summary

Motivated AI/ML Specialist and Java Full Stack Developer with hands-on experience in Java, Spring Boot, Angular, Python, Machine Learning, RESTful APIs, MySQL, Cloud Computing, and Full Stack Development. Skilled in scalable web application development, backend development, frontend development, API Integration, SQL query optimization, JWT authentication, Agile Development, SDLC, Object-Oriented Programming (OOP), NLP, Computer Vision, and responsive web design. Experienced in developing secure enterprise applications, AI-powered solutions, database management, debugging, troubleshooting, and performance optimization using modern software engineering practices.

Core Competence

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| <ul style="list-style-type: none">Java Development & Full Stack DevelopmentAI/ML Development, Machine Learning, Artificial Intelligence, Deep Learning & LLMsPyTorch, Spring Boot, Spring MVC & RESTful APIsAngular, TypeScript, HTML5, CSS3 & BootstrapBackend Development & Frontend DevelopmentMySQL, SQL Query Optimization & Database ManagementObject-Oriented Programming (OOP) & Data StructuresAPI Integration & Microservices ConceptsJWT Authentication & Role-Based Access Control | <ul style="list-style-type: none">SDLC & Agile Development MethodologyDebugging, Troubleshooting & Code ReviewSoftware Testing & Technical DocumentationMachine Learning & Artificial IntelligencePython Programming & Scikit-learnOpenCV, Computer Vision & Image ProcessingNLP (Natural Language Processing)Cloud Computing & Microsoft Azure FundamentalsPerformance Optimization & Responsive Web DesignProblem Solving, Team Collaboration & Continuous Learning |
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Professional Experience

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| Java Full Stack Developer Trainee - Quest Innovative Solutions Pvt. Ltd., Kerala, India | 03/2024 – 05/2025 |
| <ul style="list-style-type: none">Developed scalable web applications using Java, Spring Boot, Angular, RESTful APIs, and MySQL, improving application performance by 30%.Built responsive frontend interfaces using Angular, HTML5, CSS3, Bootstrap, and TypeScript with 100% mobile compatibility.Implemented database normalization and SQL query optimization techniques, reducing query execution time by 40%.Integrated JWT authentication, role-based access control, and backend services for secure enterprise application development.Collaborated with Agile teams for debugging, troubleshooting, code optimization, software testing, and technical documentation, reducing production bugs by 25%. | |

Education

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| Artificial Intelligence and Machine Learning - Learners Point Academy, Dubai, UAE | 2025 - 2026 |
| Bachelor of Computer Applications (BCA) – Robotics, AI & Machine Learning - Yenepoya (Deemed to be University), Mangalore, India | 2020 – 2023 |

Certification

KHDA Certified – Artificial Intelligence and Machine Learning	2026
Microsoft Azure Fundamentals (AZ-900) – Microsoft	2023

Project Completed

Student Management System Full Stack Developer Quest Innovative Solutions Tools: Angular, TypeScript, Spring Boot, Spring Data JPA, RESTful APIs, MySQL, Bootstrap, JWT, PDF Generation	03/2024 – 05/2025
- Developed a full-stack web application managing 500+ student records with CRUD operations, JWT authentication, API Integration, and responsive UI design. - Optimized SQL queries and backend processing, reducing page load time by 50% while enabling real-time search and PDF report generation.	
Login and Registration System Full Stack Developer Tools: Java, Spring Boot, Spring MVC, RESTful APIs, MySQL, HTML5, CSS3, Bootstrap	12/2025 – 01/2026
- Developed a secure authentication system with user login, registration, password encryption, and role-based access control using Java and Spring Boot. - Designed responsive UI and integrated RESTful APIs with MySQL database for secure data handling and improved user experience.	
Traffic Sign Detection and Recognition System AI/ML Developer Yenepoya University Tools: Python, OpenCV, Machine Learning, Computer Vision, Image Processing	10/2022 – 02/2023
- Developed a real-time Traffic Sign Detection system using Python and OpenCV with 92% accuracy and classification of 20+ traffic signs. - Applied Machine Learning, image processing, and pattern recognition algorithms to improve real-time processing and system reliability.	
AI Chatbot Using Python AI/ML Developer Tools: Python, NLTK, Scikit-learn, JSON, NLP	01/2026
- Developed an AI-powered chatbot using NLP, tokenization, intent classification, and automated response generation techniques. - Improved chatbot accuracy, scalability, and response precision through Machine Learning model training and testing on diverse datasets.	

Languages

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

Achievements

- Developed and delivered 5+ scalable full-stack web applications using Java, Spring Boot, Angular, RESTful APIs, and MySQL.
- Improved SQL query performance by 40% through database normalization, backend optimization, and efficient database management techniques.
- Reduced production bugs by 25% through debugging, troubleshooting, Agile collaboration, code optimization, and software testing.
- Achieved 92% accuracy in machine learning-based traffic sign detection using Python, OpenCV, computer vision, and image processing algorithms.
- Developed secure enterprise applications and AI-powered chatbot solutions using JWT authentication, NLP, Scikit-learn, and role-based access control mechanisms.