

ALI AFZAL

AI Engineer | AI Automation & Full Stack Developer

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PROFESSIONAL SUMMARY

Results-driven AI Engineer and Full Stack Developer with over a year of hands-on industry experience engineering and deploying production-grade intelligent systems. Specializes in end-to-end machine learning pipelines, Retrieval-Augmented Generation (RAG), LLM-powered chatbots and AI agents, real-time computer vision analytics, and AI-driven business automation, including CRM platforms integrated with the WhatsApp Business API and Three.js 3D web experiences. Recognized by technical leadership for bridging the gap between deep technical capabilities and real-world business challenges to deliver high-impact digital products.

TECHNICAL SKILLS

AI & Machine Learning: Machine Learning, Deep Learning, PyTorch, TensorFlow, Scikit-Learn, Transformers, NLP, CNN, Time-Series Forecasting (Prophet)

Generative AI & LLMs: LLMs, GenAI, RAG, Autonomous AI Agents, LangChain, LlamaIndex, Embeddings, Semantic Search, Vector DBs (Pinecone, Qdrant, Chroma), Document-Trained Knowledge Bases

Computer Vision: YOLOv8, OpenCV, Object Detection & Tracking, Image Segmentation, Generative Diffusion Models, Neural Style Transfer

Backend & Data Engineering: Python, FastAPI, Flask, SQL, REST APIs, Pandas, NumPy, Plotly, Streamlit, Data Pipelines

Automation & Integrations: AI Automation, Make.com, WhatsApp Business API, Meta for Developers (Facebook Developer Platform), CRM & Lead Tracking, Workflow Automation, Multi-Channel Messaging, Appointment Scheduling Automation

Cloud & DevOps: AWS, Azure, Docker, Git, GitHub, CI/CD, Agile/Scrum

Frontend & 3D Web: Next.js, React.js, JavaScript (ES6+), Three.js, HTML5, CSS3, Tailwind CSS, Responsive Design

PROFESSIONAL EXPERIENCE

AI Automation | Ravisn Pvt Ltd, Lahore

May 2026 – Present

RAVISN — AI Automation Platform | app.ravisnapp.com

- Built and maintain app.ravisnapp.com, the central web platform powering custom AI agent deployment, 24/7 lead qualification, and automated business workflows.
- Integrated the WhatsApp Business API to run automated outbound messaging campaigns and CRM-based lead tracking.
- Built and configured Meta apps via Meta for Developers (developer.facebook.com) for WhatsApp Business API integration.
- Embedded custom-trained AI assistants and document-trained knowledge base solutions directly into the web platform.
- Streamlined real-time analytics for automated appointment scheduling, WhatsApp automation, and conversion rates across multi-channel campaigns.
- Launched TryRAVISN, a unified social inbox with automated reply workflows that streamlines customer support across channels.
- Delivered Three.js-powered 3D web platforms for four logistics and trucking clients (Cargo Kings Inc, JCD Forwarder, Big Mack Trucking, Umaja Logistics), featuring interactive 3D models, freight tools, and responsive design.

AI Developer Intern | ARSUS IT Solutions, Lahore, Pakistan

Dec 2025 – Apr 2026 (Remote)

- Architected and shipped a Hadith Chatbot on a full RAG pipeline, incorporating embedding generation, vector similarity search, and LLM synthesis to return contextually matched results from authenticated sources.
- Built an LLM-powered Warehouse Copilot with a FastAPI backend that enables natural-language inventory queries and real-time stock tracking, significantly reducing manual lookup times.
- Developed an AI Sales Forecast Chatbot that integrates with live POS data using the Facebook Prophet time-series model, delivering predictive business insights through a Streamlit interface.

- Engineered a comprehensive Business Analytics Dashboard using Python, Pandas, and Plotly to track interactive KPIs, customer churn, and sales trends.
- Spearheaded agile development lifecycles across all projects, strictly adhering to version control (Git), sprint planning, peer code reviews, and staged deployments.

FEATURED PROJECTS

SaaS Platforms & Web Applications

- **RAVISN App** (app.ravisnapp.com) [*WhatsApp Business API, Meta for Developers, CRM, AI Agents, Workflow Automation*]: Engineered a scalable outbound marketing and CRM platform integrated with the WhatsApp Business API for automated messaging campaigns and lead tracking, with document-trained knowledge base integration, 24/7 AI lead qualification, and real-time conversion analytics.
- **TryRAVISN** (tryravisn.com) [*Multi-Channel Messaging, Workflow Automation*]: Developed a centralized multi-channel communication hub consolidating social interactions into a single inbox with automated messaging workflows to streamline customer support.

3D Interactive & Logistics Platforms

- **Cargo Kings Inc** (cargokingsinc.com) [*3D Web, Responsive Design*]: Designed a high-performance logistics web platform featuring interactive 3D vehicle models and real-time dispatch specifications for commercial freight and port-access transport.
- **JCD Forwarder** (jcdforwarder.com) [*Three.js, JavaScript*]: Built a comprehensive international freight forwarding portal featuring an interactive Three.js 3D container simulator, volumetric weight calculator, and multi-hub DDP tracking tools.
- **Big Mack Trucking** (bigmacktrucking.com) [*3D Web*]: Developed a specialized 3D-enabled web platform optimizing freight transport presentation, route capability showcases, and client dispatch workflows.
- **Umaja Logistics** (umajalogistics.online) [*3D Visualization, Responsive Design*]: Engineered a high-end logistics web interface utilizing advanced 3D visualization and responsive design to enhance brand presentation and carrier operations.

AI, Machine Learning & Computer Vision

- **Hadith Chatbot** [*Python, RAG, LLMs, Vector DB*]: Engineered a complete Retrieval-Augmented Generation pipeline from scratch, handling text chunking, indexing, and semantic search, to surpass traditional keyword matching and improve answer quality.
- **AI Sales Forecast Chatbot** [*Docker, SQL, Prophet, Streamlit*]: Containerized and deployed a conversational forecasting tool that ingests historical transaction data to provide actionable future sales trends to non-technical stakeholders.
- **Warehouse Copilot** [*Python, FastAPI, NLP*]: Developed a natural-language AI assistant capable of querying structured inventory data, engineered as an embeddable FastAPI backend for seamless integration with existing management interfaces.
- **Real-Time Object Detection** [*YOLOv8, OpenCV*]: Built a video stream processing pipeline for object tracking and classification featuring configurable confidence thresholds and bounding-box overlays.
- **VirtualFitAI** [*Computer Vision, Generative AI*]: Developed a generative AI and computer vision virtual try-on system tailored for e-commerce, allowing users to visualize garments virtually.
- **Business Analytics Dashboard** [*SQL, Streamlit, Pandas*]: Designed an interactive BI dashboard driven by live SQL queries to provide executive-level insights, enabling filtering by date, category, and region.

EDUCATION

Bachelor of Science in Artificial Intelligence | Superior University, Lahore 2024 – 2027 (Expected)

- **Core Focus:** Machine Learning, Deep Learning, NLP, Computer Vision, Data Structures, Algorithms, Statistics.

ENDORSEMENT

“Ali Afzal is a true AI development professional. He combines a broad spectrum of technical skills with a deep understanding of the business challenges that come with building digital products, and always delivers top-quality code and solutions.”

— Azeem Hafeez, Technical Manager, Raaziq International PVT LTD