

Abdullah Bajwa

Lahore, Pakistan

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Professional Summary

Innovative Software and Web Developer with a solid foundation in AI, machine learning, and automation technologies. Experienced in developing AI-driven applications, smart home automation systems, and web solutions. Proficient in Python, Django, Flutter, and cloud services, with a focus on delivering high-quality, user-centric products.

Education

Bachelor of Science in Artificial Intelligence

University of Management and Technology, Lahore, Pakistan

Nov 2021 - Present

- **CGPA:** 3.67/4.0
- **Relevant Coursework:** Data Structures and Algorithms, Artificial Intelligence, Database Systems, Computer Networks

Pre-Medical

Aspire Group of Colleges, Gujranwala, Pakistan

Jul 2019 - Jun 2021

- **Score:** 1054/1100

Experience

CEO & Founder

Bajwa.co | Lahore, Pakistan

2020 - Present

- Spearheaded the development of AI-driven and smart automation projects, leading teams to create innovative solutions.
- Launched and managed various web, mobile, and IoT applications with a focus on enhancing user experiences.

Sales Executive

Omega Techtriad LLC | Lahore, Pakistan

Jul 2023 - Present

- Oversaw dispatch services, optimizing operational efficiency and ensuring customer satisfaction.

Skills

- **Programming Languages:** Python, C++, HTML/CSS, JavaScript, SQL
- **Frameworks & Tools:** Django, Flask, TensorFlow, AIML, Neo4j
- **Mobile Development:** Flutter, Android
- **AI & Machine Learning:** LSTM, Attention Mechanisms, Natural Language Processing
- **Automation & IoT:** Home Automation Systems, Sensor Integration, Voice Control
- **Cloud Services:** AWS, GCP
- **Languages:** English (Full Professional Proficiency), Urdu (Native), Japanese (Limited Working Proficiency)

Projects

Workout Video Classifier

- Developed an AI application to classify exercise videos using a deep learning model.
- Executed data preprocessing, landmark extraction, and TensorFlow model training for accurate video classification.

Advanced Stock Pattern Prediction

- Built an LSTM network with attention mechanisms to predict stock patterns, specifically focusing on AAPL stock.
- Improved forecasting accuracy by predicting the next four stock price candles.

Million-Parameter LLM

- Created a language model with a million parameters from scratch using Python.
- Optimized model architecture and training for enhanced performance and efficiency.

Elderly Companion App

- Developed a Flutter-based app with Gemini integration for providing companionship to elders.
- Integrated a drone assistant for real-time task execution, emergency alerts, and live location tracking.

AI Chatbot

- Created a chatbot using Flask, AIML, and Neo4j for natural language processing and smart home automation.
- Enabled voice and sensor-based controls for automated home management, including device control and environment monitoring.

Home Automation System

- Designed and implemented a home automation system using IoT devices, sensors, and AI models.
- Developed features for automated lighting, climate control, and security systems, with voice and remote control capabilities.

Blog Website

- Built a responsive blog website using HTML, CSS, JS, and PHP.
- Developed features for article upload, modification, and a ranking system based on user views.

Blood Bank Management System

- Designed an OOP-based system with separate interfaces for donors and administrators.
- Implemented secure admin authentication and streamlined the management of blood donations.

Smart Shopping Cart

- Created a shopping cart system with auto product scan, billing, and cloud connectivity.
- Integrated user authentication and developed an intelligent billing mechanism.