

Abdullah Bajwa

AI & Full-Stack Developer | Automation & Generative AI Enthusiast
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[LinkedIn](#) | [GitHub](#) | [Portfolio](#)

Summary

AI-focused software developer passionate about crafting intelligent automation solutions and full-stack applications. Skilled in Python, Django, Flutter, and Machine Learning with proven expertise in deploying advanced AI models, automation pipelines, and project cost evaluation systems like HuBiCEM. Experienced in open-source development, delivering scalable, production-ready AI tools and frameworks with a personal trademark on clean, modular, and maintainable code.

Technical Skills

- **Languages:** Python, Dart (Flutter), C++, SQL, JavaScript, HTML/CSS
 - **Frameworks & Libraries:** Django, Flask, TensorFlow, Scikit-learn, Flutter, Neo4j, PyTorch
 - **AI & ML:** LSTM, NLP, Attention Mechanisms, Generative AI, Computer Vision
 - **Databases:** PostgreSQL, Neo4j, Firebase Firestore
 - **Cloud & DevOps:** AWS (Certified Cloud Practitioner), Docker, Git, CI/CD pipelines
 - **Others:** REST APIs, Agile, Unit Testing, Automation scripting
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Education

University of Management and Technology (UMT), Lahore
Bachelor of Science in Artificial Intelligence — 2021 – Present

Professional Experience

Founder & Lead Developer — Bajwa.co

Jan 2023 – Present | Lahore, Pakistan

- Architected and developed multiple AI-powered automation and full-stack applications used by clients and open-source community.

- Created **HuBiCEM**, an innovative developer-centric cost evaluation model leveraging per-developer regression to forecast sprint performance and cost accurately.
- Integrated cloud and containerization best practices ensuring scalable, maintainable AI solutions.

AI Developer & Researcher — EAGLE WINGS (Final Year Project)

Sept 2024 – Present | UMT, Lahore

- Developed an AI personal assistant drone platform featuring facial recognition, autonomous charging, voice commands, and gesture control using Python, TensorFlow, OpenCV, and DJI Tello EDU.
 - Enabled real-time drone control and interaction via NLP-powered chatbots.
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Selected Projects

HuBiCEM (Hunar Bin Cost Evaluation Model)

- Developed a sprint-based developer performance estimation model with linear regression to individually predict time and cost per developer.
- Automated project forecasting with detailed predictive reports aiding agile project management. ([click here](#))

MCP Excalidraw

- Developed a server enabling large language models to interact programmatically with Excalidraw whiteboards without a structured API.
- Supported operations like creating, modifying, querying visual elements, and Docker deployment.
- Integrated with Claude and Cursor LLMs, expanding LLM interaction with graphical interfaces. ([click here](#))

Stella Chatbot

- Built an intelligent chatbot combining AIML, Django, Prolog, machine learning, and Neo4j knowledge graphs.
- Features web scraping, spell-checking, personalized conversation, and multi-domain NLP capabilities. ([click here](#))

Legal Scraper

- Created an automated scraper for extracting and organizing legal documents and data for research and compliance applications.

Workout Video Classifier

- Built a TensorFlow LSTM-based video classifier achieving 95% accuracy for automated workout classification. ([click here](#))

Stock Pattern Prediction

- Developed an LSTM-based stock market trend prediction model with a 20% improvement in forecasting accuracy. ([click here](#))

MintArt – AI Image Generation Platform

- Created an AI-powered image generation platform integrated with payment gateways to monetize creative AI outputs. ([click here](#))

IoT Home Automation System

- Developed a voice-controlled smart home automation system using IoT devices with 90%+ voice recognition accuracy.

Cuddly Fortnight

- Real-time text prediction dashboard. ([click here](#))
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Certifications

- AWS Certified Cloud Practitioner – 2023
 - Various AI, ML, and Cloud online courses (Coursera, Udemy)
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Open Source Contributions

- **HuBiCEM** (GitHub): Core development of a regression-based cost and performance evaluation tool for developers.
 - **MCP Excalidraw**: Lead developer on an LLM-interactive drawing server enhancing AI-human collaborative workflows.
 - **Stella Chatbot**: Contributor and maintainer of an AIML + Neo4j chatbot framework for intelligent, personalized assistance.
 - Various AI and automation repositories focusing on NLP, vision, and IoT integrations.
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Languages

- English (Professional)
- Urdu (Native)

- German (Basic)
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Interests

- Automating repetitive tasks and workflows with AI and cloud tech
- Exploring generative AI to enhance software development productivity
- Robotics and intelligent personal assistant systems