

BADAR BHUTTA

AI Automation Engineer | AI Agent Developer | Full-Stack to AI

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PROFILE

AI Automation Engineer with 5 years of full-stack engineering experience and 3 years building practical AI systems on top of real products. Specializes in AI agents, RAG assistants, chatbots, document automation, workflow automation, and AI integrations connected to CRMs, dashboards, payment flows, messaging channels, admin panels, databases, and internal tools. Strong across Python, FastAPI, Node.js, OpenAI, Claude, Gemini, LangChain, CrewAI, OpenClaw, n8n, Zapier, Make, pgvector, prompt design, structured outputs, tool calling, observability, and human-in-the-loop approval flows.

IMPACT SNAPSHOT

3+ years AI automation	5+ years full-stack base	100+ automation engagements
RAG knowledge assistants	Agents tool-calling workflows	n8n workflow automation

AI AND AUTOMATION STACK

Models: OpenAI GPT, Claude, Gemini, Ollama/local LLMs, structured outputs, function calling, tool use	Agents: OpenClaw, CrewAI, LangChain agents, custom tool-calling agents, MCP servers, multi-agent workflows
RAG: pgvector/Postgres, embeddings, chunking, hybrid search, source-attributed answers, knowledge bases	Automation: n8n, Zapier, Make, Pipedream, webhooks, cron jobs, queues, event-driven pipelines
Backend: Python, FastAPI, Pydantic, Node.js, Express, NestJS, REST, GraphQL, WebSockets, Redis queues	Integrations: WhatsApp, Telegram, Slack, Discord, Gmail, Google Sheets, CRMs, Stripe/payment APIs, admin panels

KEY HIGHLIGHTS

- Bridge full-stack engineering and AI, connecting models to real CRMs, payment flows, dashboards, messaging apps, admin panels, databases, and operational workflows instead of leaving AI as isolated demos.
- Build RAG assistants and customer support chatbots with document ingestion, chunking strategy, embedding selection, retrieval logic, prompt design, source attribution, and human handoff flows.
- Ship multi-step automations using n8n, Zapier/Make, webhooks, scheduled jobs, and custom Python/Node.js services for lead routing, document extraction, reporting, messaging triggers, and approval flows.
- Design safer agent workflows with structured outputs, Pydantic validation, logging, fallback handling, cost awareness, and approval gates before irreversible or external actions.
- Use senior judgment to choose between no-code automation, low-code orchestration, and custom-coded services depending on reliability, cost, privacy, and complexity.

PROFESSIONAL EXPERIENCE

AI Automation Engineer

Independent and Client Work | Remote | 2023 - Present

- Build AI automation systems using Python, FastAPI, Node.js, OpenAI/Claude/Gemini APIs, LangChain, CrewAI, n8n, Zapier, Make, and custom backend services.
- Design agents that read context, call tools, process documents, trigger workflows, update systems, and produce structured outputs validated against schemas.
- Build RAG assistants with document ingestion, chunking strategies, embedding selection, pgvector retrieval, prompt design, and source-attributed answer generation.
- Wire AI features into dashboards, admin panels, CRM-style flows, WhatsApp/Telegram bots, Google Sheets, Gmail, and third-party APIs with logging and human approval where needed.

Senior Full Stack Developer with AI Integration Focus

Dcodax Technologies | Remote | 2021 - Present

- Add AI features into production web and mobile products, including smart search, content generation, chatbot flows, OCR/document automation, analytics summaries, and admin productivity tools.
- Build backend APIs and automation layers that connect AI models with databases, user accounts, permissions, notifications, payments, reporting dashboards, and internal business workflows.
- Apply AI automation in e-commerce, delivery systems, ERP modules, booking platforms, lead management, support operations, and internal reporting workflows.

Freelance Automation Developer

Fiverr and Direct International Clients | Remote | 2020 - Present

- Completed 100+ automation and integration engagements covering data sync, email workflows, Google Sheets automations, webhook pipelines, API connections, chatbot setup, and admin workflow improvements.
- Worked directly with clients to identify repetitive tasks, design automation flows, connect tools, test edge cases, and provide maintainable handover documentation.
- Delivered practical automations using no-code platforms where suitable and custom Python/Node.js services when flexibility, scale, or reliability required code.

AI ENGINEERING STRENGTHS

- RAG systems: ingestion pipelines, chunking strategy, embedding model selection, pgvector/Postgres retrieval, source-attributed answers, and knowledge-base search flows.
- Agent design: tool calling, memory/context handling, action boundaries, retries, fallbacks, structured output validation, and human approval before sensitive external actions.
- Business automation: n8n/Zapier/Make workflows, API orchestration, messaging automation, scheduled reporting, document extraction, CRM-style routing, and dashboard ingestion.

PORTFOLIO

RAG Knowledge Base Assistant

pgvector on Postgres | OpenAI embeddings | FastAPI | source-attributed answers

Built a retrieval assistant for documents, SOPs, project notes, and internal knowledge. Owned ingestion, chunking strategy, embedding selection, retrieval design, prompt structure, and source attribution so users can verify answers instead of trusting blind AI output.

AI Customer Support and Sales Chatbot

LLM chatbot | knowledge base | handoff logic | website and WhatsApp workflows

Created chatbot workflows that answer FAQs, qualify leads, collect user details, summarize conversations, and hand serious inquiries to a human team. Designed response rules, guardrails, and CRM-style integration so conversations stay useful and traceable.

Document and OCR Automation Pipeline

Python | LLM extraction | PDFs, invoices, forms | structured JSON output

Built workflows for extracting structured data from PDFs, invoices, forms, and screenshots, then validating outputs before sending them into sheets, dashboards, or review queues. Focused on reducing manual copy-paste and improving data consistency.

n8n Lead and Client Workflow Automation

n8n | webhooks | email and sheet automation | notification flows

Designed workflow automations for lead capture, inquiry routing, spreadsheet updates, notifications, follow-up triggers, and operational tracking. Used no-code orchestration where fast maintenance mattered and custom code where reliability required it.

WhatsApp and Telegram AI Workflow Bots

Messaging automation | AI replies | alerts | summaries | command workflows

Built bot-style workflows that receive messages, classify intent, summarize content, trigger automations, and send structured replies or alerts. Used for support, reminders, team updates, internal operations, and business notifications.

Internal AI Agent Workspace

OpenClaw runtime | memory | tools | cron | multi-agent workflows

Built and operated an AI workspace that coordinates tasks, automates reminders, manages memory, runs tool-based actions, and connects agents with real workflows. Used for proactive checks, document generation, research, and operational assistance.

Custom Business Operations Agent

Agent design | tool calling | context fetching | draft outputs | approval gates

Designed a business assistant that understands requests, fetches context, prepares outputs, calls tools, and supports operations such as client follow-ups, document drafting, project tracking, and workflow reminders, with human approval before external actions.

Additional AI work includes AI content and marketing automation, campaign summaries, e-commerce and delivery operations automation, order alerts, vendor updates, scheduled reports, developer productivity agents, code-change summaries, documentation drafts, and task breakdown workflows.

EDUCATION

Bachelor of Software Engineering, COMSATS University Islamabad | Graduated 2021