

Mubashar Ashraf

Full-Stack AI Engineer | AI Automation Developer

Building AI agents, n8n automation workflows, and deployment-ready web products

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PROFILE

Full-stack AI engineer focused on building practical **AI agents, RAG systems, n8n automation workflows**, and **full-stack AI applications** that move from idea to deployed software. Experienced with LangGraph, LangChain, LLM integration, vector databases, prompt engineering, agent memory, n8n, OpenRouter, Airtable, Cloudinary, Python, Node.js, PostgreSQL, Docker, REST APIs, backend integrations, automation dashboards, and production-ready deployment workflows.

EXPERIENCE

Independent AI & Full-Stack Developer

PROJECT-BASED

Freelance platform work & direct client projects

- Built AI automations, web dashboards, backend APIs, n8n workflows, and custom tools from client requirements through delivery.
- Handled face-to-face requirement gathering, scope discussions, demos, revisions, and handoff communication.
- Delivered practical solutions across AI agents, RAG systems, full-stack apps, API integrations, and deployment-ready dashboards.

TECHNICAL SKILLS

AI & LLM

- AI Agents
- RAG Systems
- Vector Databases
- LLM Integration
- Prompt Engineering
- AI Automation
- n8n Workflows
- OpenRouter
- Airtable Automation
- Multi-Agent Systems
- Full-Stack AI Apps
- Model Deployment
- AI Evaluation
- Agent Memory
- LangGraph
- LangChain
- Groq API
- Whisper

LANGUAGES

- Python
- JavaScript
- Rust
- C++
- Dart
- MQL5

WEB & BACKEND

- Node.js
- Django
- Express.js
- PostgreSQL
- REST APIs
- WebSockets

TOOLS & PLATFORMS

- Docker
- Git / GitHub
- n8n
- Airtable
- Cloudinary
- Meta Instagram API
- FFmpeg
- Flutter
- Shopify
- MetaTrader

CLIENT & DELIVERY

- Client Communication
- Requirements Gathering
- Technical Documentation
- Remote Collaboration
- Problem Solving
- Fast Learning

EDUCATION

BS Software Engineering

2023 – 2027

COMSATS University Islamabad

SELECTED WORK



Smart Trade Automation — AI-Powered Trading Platform

AI PLATFORM

Built a production-grade trading automation platform that uses **AI agents** to generate trading scripts, refine strategies, run backtesting workflows, and support risk-aware optimization for non-technical traders. Designed as a client-facing platform with automation, strategy management, and MetaTrader integration at the core.

- MQL5
- Python
- Rust
- AI Agents
- MetaTrader
- Backtesting
- Risk Automation



NewsAgent AI — WhatsApp News Aggregator

AI + FULL-STACK

Built an **autonomous AI agent system** with LangGraph that fetches news from 6+ trusted sources, filters duplicates, generates concise summaries with a hosted LLM API, scores relevance, and delivers curated digests through WhatsApp. Includes a PostgreSQL backend, Docker deployment, and web dashboard.

- Python
- LangGraph
- LLM API
- PostgreSQL
- WhatsApp API
- Docker

IG Instagram AI Automation - n8n Content Pipeline

AI WORKFLOW

Built a two-workflow **n8n automation system** that generates Instagram-ready content packages, creates AI images, uploads assets to Cloudinary, logs lifecycle state in Airtable, and publishes approved posts through the **Meta Instagram API**. Includes async polling, duplicate-prevention states, retry handling, and recoverable publish-failure tracking.

- n8n
- OpenRouter
- Kie AI
- Cloudinary
- Airtable
- Meta Instagram API
- State Management



YouTube Shorts AI Agent — Auto Video Editor

AI PIPELINE

Developed an AI-powered pipeline that downloads YouTube videos, transcribes with **faster-whisper (GPU)**, uses an **LLM scoring workflow** to identify the most engaging segments, and auto-edits each into vertical shorts (9:16, ~60s) with burned-in captions — ready for upload.

- Python
- faster-whisper
- LLM Scoring
- MoviePy
- FFmpeg
- yt-dlp



Social Saver — Cross-Platform Video Downloader

FLUTTER

Cross-platform mobile app built with **MVVM architecture** and **Bloc state management** — downloads videos from Instagram, YouTube, TikTok & Facebook. Features light/dark mode and clean UI.

- Flutter
- Dart
- Bloc
- MVVM
- REST APIs