

# Muhammad Yasir

Junior AI Engineer

+971557515330 ◇ [jamyasir0534@gmail.com](mailto:jamyasir0534@gmail.com) ◇ Al Murar Street, Dubai, United Arab Emirates ◇ [LinkedIn](#) ◇ [GitHub](#) ◇ [Website](#)

## SUMMARY

AI and automation engineer with hands-on experience building production-ready machine learning systems, computer vision pipelines, and NLP applications. Strong background in Python development, deep learning model deployment, and end-to-end data automation. Built autonomous AI agents, document extraction systems, and predictive analytics tools. Currently in Dubai - available to start immediately.

## EXPERIENCE

**AI Engineer Intern** Jun '25 — Nov '25  
Codiux Multan Pakistan

- Designed and deployed deep learning and OCR models for computer vision and document processing using PyTorch and TensorFlow.
- Built NLP-based text classification systems and predictive analytics models
- Handled data preprocessing, feature engineering, and optimization end to end.
- Developed autonomous AI agents and automation workflows integrating REST APIs, model inference pipelines, and real-time data handling.
- Implemented TrOCR-based document extraction system that automated structured data retrieval from scanned files.

**Python Developer Intern** Aug '24 — Nov '24  
Bahauddin Zakariya University, Sub-Campus Lodhran Tehsil, Pakistan

- Built Python data pipelines and web scrapers to automate research data collection and cleaning
- Reduced manual processing by approximately 50%.
- Conducted data analysis and exploratory ML using pandas, NumPy, and scikit-learn.
- Delivered reproducible workflows using Git, Jupyter Notebooks, and unit testing alongside university researchers.

## EDUCATION

**Bachelor of Science in Information Technology**, Bahauddin Zakariya University, Sub Campus Mar '21 — May '25  
Lodhran (GPA: 3.14 / 4.00) Lodhran, Pakistan

- Final Year Research: A Decentralized Data Vault Using Blockchain Technology

## & TRAINING

**Generative AI using LangChain** Nov '25

**100 Days of Machine Learning** Jun '24

**Cyber Security for Everyone** Aug '24

## SKILLS

**Machine Learning** Supervised Learning, Unsupervised Learning, Scikit-learn, Random Forest, Model Deployment

**Generative AI** Large Language Models, Prompt Engineering, RAG, Embeddings, Vector Databases, OpenAI API, LangChain

**Agentic AI** AI Agents, Tool Calling, ReAct Agents, LangGraph, Multi-Agent Workflows, Planning Agents, Task Automation, Human-in-the-Loop Systems

**Data Science** Data Cleaning, Data Analysis, Pandas, NumPy, Predictive Modeling, Exploratory Data Analysis

**Natural Language Processing** Text Classification, Sentiment Analysis, Text Summarization, Semantic Search

**Frontend Development** React.js, Next.js, JavaScript, Vue.js, CSS

**Backend Development** Python, FastAPI, Flask, REST APIs, Backend Architecture, NodeJs

**Automation** Workflow Automation, Email Automation, Web Scraping, Browser Automation, Task Scheduling

**Software Engineering** Git, GitHub, Problem Solving, System Design Basics, Documentation

**Cloud & Deployment** Docker, GitHub Actions, Google Cloud Platform, CI/CD Basics, AWS, Vercel

## PROJECTS

**Autonomous AI Coding Agent** [Link](#) Dubai

- Built an AI agent that automates coding tasks - writes, debugs, and self-corrects code using LLM reasoning loops with tool use and context tracking.
- PYTHON . LANGCHAIN . OPENAI API . AGENTS

**TrOCR Document Extraction System** [Link](#) 2024 — 2025

- Automated structured data extraction from scanned documents using Microsoft TrOCR.
  - Handles layout parsing, field recognition, and export to structured formats.
  - TROCR . PYTORCH . COMPUTER VISION . NLP
- Stocks Trading Analysis Agent [Link](#)** 2025 — 2025
- GenAI system for real-time stock trend analysis and prediction.
  - Integrates live market APIs, LLM reasoning, and time-series analysis in a single workflow.
  - LANGCHAIN . GENAI . LIVE APIS . PANDAS
- Email Spam Classifier (Neural Network) [Link](#)** 2025 — 2025
- PyTorch neural network for email spam detection.
  - Covered text preprocessing, tokenization, model training, and evaluation with strong precision and recall.
  - PYTORCH . NLP . SCIKIT-LEARN . CLASSIFICATION
- Blockchain-Backed Secure Storage [Link](#)** 2025 — 2025
- Decentralized data vault using blockchain for tamper-proof storage and cryptographic data integrity verification.
  - Basis of final year research project.
  - BLOCKCHAIN . PYTHON . CRYPTOGRAPHY
- Number Plate Detection - Florence [Link](#)** 2022 — 2023  
Florence
- Vehicle number plate detection and recognition using Microsoft Florence vision model.
  - Processes live camera feeds with real-time inference and OCR.
  - FLORENCE . OPENCV . COMPUTER VISION
- Fantasy E-Sports Prediction Engine [Link](#)** 2024 — 2024
- ML models predicting player and match outcomes in fantasy e-sports.
  - Applied feature engineering on historical match data with ensemble model scoring pipeline.
  - SCIKIT-LEARN . PANDAS . FEATURE ENGINEERING
- Email Automation & Smart Reply [Link](#)** 2023 — 2024
- Automated email processing system with intelligent reply generation.
  - Classifies incoming emails using NLP and triggers contextual automated responses.
  - PYTHON . NLP . SMTP . AUTOMATION . APIS
- SmartMail AI [Link](#)** 2026 — 2026
- AI-first universal email client built as a mobile-ready Progressive Web App (PWA) with unified inbox architecture, Gmail/Office 365/IMAP support, AI summaries, AI reply drafts, priority scoring, account switching, search, labels, archive/delete, and responsive inbox experience.
  - Developed using Claude-style multi-agent workflow, specs-driven architecture, hooks, skills, and automated testing.
  - Live: <https://ai-mail-pwa.vercel.app/>
  - GitHub: <https://github.com/devxyasir/AI-Mail-PWA>
  - NEXT.JS, TYPESCRIPT, SUPABASE

## ACHIEVEMENTS & ACTIVITIES

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### Guest Speaker - AI/ML

Bahauddin Zakariya University Sub-Campus Lodhran

1 Guest Speaker - AI/ML, Bahauddin Zakariya University Sub-Campus Lodhran.

### Delivered a session on practical machine learning applications to undergraduate students.

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