

# Muhammad Yasir

Junior AI Engineer

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## 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

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

## 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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