



Md Ariful Islam

AI Developer | AI Automation | Data Acquisition Engineer

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Summary

Python Automation Engineer with 2+ years of experience building production-grade data pipelines and automation solutions for enterprise SaaS platforms, including shipping 729+ Python modules to production at MARKT-PILOT while contributing to a ~70% reduction in post-release defects. Delivered AI-powered automation through 700+ freelance projects (4.9/5 rating) using LLMs, RAG, LangChain, and LangGraph to solve real-world business challenges. Currently pursuing an MSc in Artificial Intelligence at the University of Jyväskylä, with a focus on building reliable AI systems that deliver measurable business impact.

Skills

Machine Learning	Generative AI	Backend and Database	Tools & Platforms
- TensorFlow - PyTorch - scikit-learn - YOLO - Deep Learning	- LangChain - LangGraph - MCP - RAG - Prompt Engineering	- Python - FastAPI - SQLAlchemy - Pydantic - SQL - PostgreSQL	- Git - Docker - Web Scraping - Azure DevOps - n8n - Playwright

Professional Experience

Markt-Pilot Data Acquisition and Automation Engineer	05/2024 – Present Germany (Remote)
- Authored and deployed 729+ production-grade Python data extraction modules (Python, YAML, HTML test fixtures) for a live enterprise SaaS platform, continuously expanding automated spare-parts discovery and structured product data pipelines. - Reduced post-release defects by ~70% through rigorous code reviews, enhanced validation logic, Azure DevOps CI/CD maintenance, and proactive production issue resolution. - Built scalable Python data pipelines and browser automation solutions using Playwright, Selenium, Requests, and BeautifulSoup, delivering reliable structured data for customer-facing search and accelerating new customer integrations.	
Fiverr (Freelance) Freelance Python Developer	12/2020 – Present Remote
- Delivered 700+ production-ready Python solutions for 200+ international clients (4.9/5 rating, 33% repeat-client rate), developing applications involving SQL, REST APIs, automation, data processing, and backend engineering. - Built AI-powered applications using OpenAI APIs, Claude, LangChain, RAG, prompt engineering, and LLM orchestration to automate business workflows and solve real-world customer challenges. - Partnered directly with clients to transform ambiguous requirements into scalable software and rapid production-ready prototypes through end-to-end solution design and delivery.	
ArolloTech Ltd IoT & AI Developer	09/2019 – 12/2020 Dhaka, Bangladesh
- Improved computer vision scene detection performance by up to 87% by optimizing AI-based image processing pipelines for an intelligent IoT monitoring solution. - Co-managed a 1,000,000 BDT government innovation grant, developing an AI-powered smart eyewear prototype and collaborating across multidisciplinary teams to deliver production-ready features.	

Education	
1	High School
2	College
3	Postgraduate

BSc in Electrical and Electronic Engineering 2012 – 2016 | Dhaka, Bangladesh
United international University

United international University

2012 – 2016 | Dhaka, Bangladesh

MSc In Artificial Intelligence 2025 – Present | Jyvaskyla, Finland
University of Jyvaskyla

University of Jyväskylä

2025 – Present | Jyväskylä, Finland

Projects

Business Operations Automation Pipeline | GitHub [🔗](#)

Python, REST APIs, Requests, Google Sheets API, JSON

- Developed a Python automation pipeline integrating REST APIs, HTTP requests (GET/POST), and Google Sheets API for order processing, warehouse selection, parcel fulfillment, invoice generation, and status tracking.
- Implemented business logic, data validation, exception handling, and JSON data processing to automate operational workflows and improve data accuracy across fulfillment processes.
- Built a production-ready workflow with API integration, database-ready structured data, and maintainable automation components for logistics and operational efficiency.

PropertyIQ – AI-Assisted Data Acquisition System | GitHub [🔗](#)

Python, Scrapy, Playwright, LangChain, LangGraph, LLM APIs, RAG, PostgreSQL, Docker

- Built an AI-assisted data acquisition system using LLM APIs, LangChain, LangGraph, RAG, and Playwright to extract, validate, and structure data from multiple real estate sources.
- Developed an end-to-end pipeline featuring intelligent extraction, self-healing workflows, data validation, PostgreSQL storage, and configurable JSON-based processing for reliable downstream analytics.

AI Smart Eyewear for the Visually Impaired

Python, TensorFlow, OpenCV, Raspberry Pi, Text-to-Speech

- Developed an AI-powered smart eyewear MVP using computer vision, object detection, face recognition, and text-to-speech for real-time assistive navigation on Raspberry Pi.
- Contributed to a government-funded innovation project, applying AI and edge computing to solve real-world accessibility challenges.

Certificates

- Team&Client Multidisciplinary Business Project [↗](#)
- Computer Vision NanoDegree [↗](#)
- Challenges in Data Science | ERASMUS blended intensive program

Publications

An Assistance System for Visually Challenged People Based on Computer Vision and IOT

IEEE

The Bangladesh road traffic sign dataset in real-world images for traffic sign recognition

ELSEVIER

Languages

English ● ● ● ● ● Finnish ● ● ● ● ●

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Finnish ●●●●●

Bengali ● ● ● ● ●

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