

Inayat Rahim

AI ENGINEER

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ABOUT

BS Artificial Intelligence student at Szabist University focused on building production-grade AI systems. Specializing in LLM fine-tuning, RAG pipelines, and agentic architectures with a focus on latency, reliability, and ROI.

STACK & EXPERTISE

AI / ML:

RAG & AI Agents
Reinforcement Learning
LLM Fine-Tuning (SSFT)

Engineering:

PyTorch & Azure
Transformer Architectures
Distributed Computing

HONOURS

Microsoft Student Ambassador

Beta Tier

Aspire Leaders Program

2025 Cohort (Harvard Business School led)

Cohere Lab Summer School

Advanced GenAI & Transformers

RESOURCES

Azure for Startups Credits

\$1,000 credit award for spatial AI and research projects

FEATURED PROJECT

SehatNama AI

Medical Report Intelligence

Healthcare OCR system for Pakistan. Processes medical PDFs/images, extracts structured findings, bilingual English/Urdu summaries, and JSON export.

AI FOCUS AREAS

LLM Engineering:

Fine-tuning & RLHF.
SSFT & prompt optimisation.
Computer Vision:
ViT backbones & OCR pipelines.
MLOps:
CI/CD Model Deployment.

EDUCATION

BS Artificial Intelligence

SZABIST University, Islamabad

2024 – 2027

EXPERIENCE & RESEARCH

Prompt Engineering Research Intern

Sep 2025 – Present

Excelerate

- Exploring advanced prompt engineering methods focusing on efficiency and reasoning
- Designing strategies to unlock AI-driven capabilities and automation for business growth
- Improving ROI through automation and intelligent systems integration

Self-Supervised Fine-Tuning Research

2025 – Ongoing

Independent / Self-Directed

- Leading research in Self-Supervised Fine-Tuning (SSFT) for enterprise adoption
- Developing frameworks for optimized workflows and reduced operational costs
- Focusing on model optimization for healthcare, finance, and manufacturing sectors

Undergraduate Research, AI and Agents

2023 – 2027

Szabist University

- Research focused on Reinforcement Learning, RAG, and Multi-Agent Systems
- Optimizing computational efficiency and reducing operational costs via algorithmic strategies.

PROJECTS

Supply Chain Intelligence Suite

LSTM · Prophet · Random Forest · Dijkstra

- Real-time logistics platform combining deep learning time-series forecasting, ensemble risk assessment, and graph-based route optimisation built for production deployment.

DINOv2-SVM Satellite Image Classifier

DINOv2 · SVM · Computer Vision

- Fused a DINOv2 Vision Transformer backbone with SVM to classify satellite imagery into 10 land-use categories achieving 95.1% accuracy on the benchmark dataset.

SehatNama AI, Medical Report Analyzer

OCR · Streamlit · PyMuPDF · Urdu NLP · Python

- Healthcare document intelligence for Pakistan — processes medical PDFs/images, extracts structured findings, highlights risky values, and generates bilingual English/Urdu patient-facing summaries.
- Multi-pass OCR with configurable accuracy modes, per-row confidence scoring, unit normalisation, and JSON export for API integration.
- Live: sehatnama-medical-report-analyzer.streamlit.app