

# MINAHIL RAMZAN

## AI Engineer

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### OBJECTIVE

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**AI Engineer** with hands-on experience in **machine learning**, **deep learning**, **NLP** and **Computer Vision** and fine-tuning **LLMs**. Developed AI solutions for real-world applications, including Emergency Index 1122 for multilingual emergency call classification and other domain-specific intelligent systems. Passionate about building scalable, impactful AI systems through continuous innovation.

### EDUCATION

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**BS Artificial Intelligence**, NUML Islamabad

Sep 2021- June 2025

**Grade:** 3.67 CGPA

**Courses:** Machine Learning, Deep Learning, Natural Language Processing, Computer Vision, Generative AI

### EXPERIENCE

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• **AI Engineer Intern-Murree Development Forum**

June 2024 – August 2024

During this, I built and tested machine learning models for prediction and classification, including NLP-based text processing and sentiment analysis. I also developed computer vision solutions and designed end-to-end ML pipelines for training, deployment, and inference.

• **Android Developer at National Science & Technology Park.**

Nov 2025 – April 2026\*

During my internship at the National Science & Technology Park (NSTP), I developed dynamic Android applications using Kotlin, focusing on building scalable and responsive user interfaces. I effectively managed Activities and Fragments and utilized ConstraintLayout to ensure design consistency across devices. Additionally, I implemented RecyclerViews with custom adapters to manage and display complex, data-driven content efficiently.

### PROJECTS

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- **Kalimatul Noor:** is an Islamic application built with Kotlin, featuring a modular Fragment-based architecture for smooth navigation. I designed a responsive UI using Constraint Layout and implemented RecyclerViews to efficiently display large datasets like supplications and Quranic verses. This project demonstrates my ability to build scalable, data-driven mobile solutions with a focus on performance.
- **Emergency Index Pakistan Rescue Services (1122):** is an AI-powered system that uses machine learning and Google APIs to classify emergency calls, assign relevant labels, and generate tailored response plans. By automating classification and integrating geolocation services, it enables faster, more accurate decision-making for emergency responders. This innovation aims to improve response times, enhance resource allocation, and ultimately save lives.
- **AI Tutor Chatbot (RAG-Based Learning Assistant):** Developed a domain-specific AI Tutor Chatbot for Physics, Medical, and academic learning using Retrieval-Augmented Generation (**RAG**). The system retrieves relevant document chunks, reranks results for better context, and generates accurate, intelligent responses using LLMs.

### Technical Skills

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- **Machine Learning:** regression, classification, clustering, feature engineering, predictive modelling
- **Deep Learning & NLP:** BERT, Hugging Face Transformers, sentiment analysis
- **Programming & Tools:** Python, Pandas, NumPy, SciPy, scikit-learn, TensorFlow, PyTorch
- **Visualization & Analysis:** Matplotlib, Seaborn, Exploratory Data Analysis
- **APIs & Deployment:** Flask, FastAPI, beginner-level AWS & Azure
- **Android Development:** Kotlin, XML, Android Studio, Activities & Fragments, ViewBinding/DataBinding, Linear Layout, Constraint Layout, basic Firebase