

Rehmat Ali

(Embedded AI Engineer)

📍 Nantes, France ✉ rehmatali8090@gmail.com 📞 +33 7 58 45 00 82 in Rehmat Ali 🌐 Rehmat Ali

Summary

Master's student at Polytech Nantes specializing in AI, Embedded Systems, and Edge AI, with 3.5 years of software development experience in ERP systems. Currently applying ML model XGBoost to predict FPGA circuit-generation parameters for complex routing congestion benchmarks.

Education

Master's in Embedded Technologies and Artificial Intelligence Nantes Université, Nantes, France Nov. 2025 – Jul. 2026

Majors: AI for Advanced Digital Communication, AI Fundamentals, Architecture of Embedded Systems, Embedded OS, Edge Computing, Design of Hardware/Software Architecture, Advanced Signal Processing, Antenna Processing, Power Consumption and Reliability, Design of Embedded Systems and Embedded Software.

Bachelor of Science (Software Engineering) SZABIST, Islamabad Sept. 2017 – July 2021

GPA: 3.16/4.0

Majors: Data Science, Digital Image Processing, Artificial Intelligence, Software Engineering, Object Oriented Programming, Software Architecture & Design and Visual Programming,

Internship

Institut d'Électronique et des Technologies du numéRique (IETR), FPGA Benchmarking Framework for AI-Based EDA Tools Nantes, France
Feb. 2026 – Jul. 2026

- Built an AI/ML-based FPGA benchmarking framework using XGBoost.
 - Created ML-ready Vivado datasets from congestion, routing, utilization, and runtime metrics.
 - Developed an AI-assisted adversarial netlist generation flow for EDA benchmarking.
 - Designed a Python/NetworkX graph generator for FPGA-aware circuit generation.
 - Automated Verilog/XDC generation for AI-driven FPGA routing-stress testing.
- 6 Months*

Experience

ERPHUB, ERP Solution Developer Cleveland, USA

- Implemented AI-driven Zoho solutions, including predictive lead scoring, chatbots, smart automation, and business forecasting.
- Developed custom Zoho applications and automated business workflows using Zoho Creator and Deluge.
- Optimized processes across Zoho CRM, Books, People, Desk, and Analytics.
- Integrated Zoho applications with external platforms using REST APIs, webhooks, and custom functions.

Onsite: Islamabad
Jan. 2023 – Aug. 2025
2.8 years

Link: [Experience Letter](#)

FairchanceforCRM Zoho Developer

Lahore, Pakistan

- Held regular meetings with clients to gather and analyze business requirements for Zoho-based solutions.
- Planned and implemented customized workflows across various Zoho applications to streamline business processes.
- Designed and developed custom workflows and functions to automate repetitive tasks and enhance CRM efficiency.
- Developed and trained a SalesIQ chatbot to handle multiple customer scenarios, trigger actions, and provide contextual responses, improving the overall digital support experience.

Onsite

Aug. 2021 – Dec. 2022

1.5 years

Link: [Experience Letter](#)

Projects

Deep Learning Based Framework for Colorectal Polyp Classification

Sep. 2021

Type: Academic Project

Members: 2

Role: Team Lead

Description: Built a CNN-based web system for colorectal polyp classification, achieving 94% accuracy and generating diagnostic reports from colonoscopy images.

Link: [Documentation](#)

Voice Controlled Home Automation using Arduino

Dec. 2020

Type: Academia

Members: Individual Project

Role: Developer

Description: Developed an Arduino-based home automation system to control electronic devices using voice commands through a Bluetooth-connected mobile application. Implemented C++ logic for command processing and device control.

GiftTrees Full-Stack Business Management System

Feb. 2024 - Jul. 2026

Type: Professional Project

Role: Developer

Description: Developed and configured the complete frontend and backend system for GiftTrees, including customer management, admin dashboards, reporting modules, commission calculation, and custom control applications for business operations.

Website: gifttrees.com

Technologies

Programming: Verilog, Python, PHP, SQL, C/C++, JavaScript, Deluge

FPGA & Embedded: Vivado, XDC, routing congestion analysis, Arduino, edge computing

AI/ML: XGBoost, CNNs, TensorFlow, model training, dataset preparation, evaluation

Web/ERP: HTML, CSS, Bootstrap, jQuery, Zoho Creator/CRM/Analytics, REST APIs, webhooks

Languages

English (Fluent)

Urdu (Native)

French (Basic)

REFERENCES

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