MUHAMMAD KHIZAR BIN MUZAFFAR

Machine Learning Engineer

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SUMMARY

Skilled Computer Science postgraduate with a focus on Machine Learning and AI engineering. Holds an outstanding academic record and multiple ML certifications, combined with a year of experience in web development. Looking for opportunities to work with LLMs and AI Agents.

PROJECTS

- **Lindekin Icebreaker AI Agent**
  Created a ReAct Agent that searches the web for a person's Linkedin profile, scrapes the information, and generates conversation starters for them.
- **Advanced RAG Pipeline**
  Implemented an advanced RAG solution in LangGraph that leverages Corrective-RAG, Self-RAG and Adaptive-RAG

SKILLS

Machine Learning, Agents, LLM, RAG, Langchain, Langraph, Langsmith, Data Science, Statistics, Python, TensorFlow, PyTorch, Linux, OpenCV, Git

CERTIFICATIONS

- LangChain - Develop LLM powered applications with LangChain (Udemy)
- LangGraph - Develop LLM powered AI Agents with LangGraph (Udemy)
- Deep Learning Specialization (Coursera)
- Professional Certificate in TensorFlow Developer (Coursera)

KEY ACHIEVEMENTS

- **Erasmus Mundus scholarship awardee**
- **7 time GPA-based scholarship recipient**
- **2 x Consectuitve EDISS Winter School** Hackathon winner

REFERENCES

Mohammad Loni
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+46 70 031 85 23
Volvo Construction Equipment

EXPERIENCE

Summer Intern
Volvo Construction Equipment

🗓 06/2024 – 08/2024   ● Eskilstuna, Sweden

- Crafted a real-time human-awareness detection pipeline using ROS, enabling improved safety protocols on construction sites.
- Evaluated sensor performance (LiDAR, infrared, mono/stereo cameras) under different weather conditions, optimizing site monitoring accuracy.
- Deployed a YOLOv8 segmentation model on embedded hardware, reducing model size by 80% and enhancing on-site data processing efficiency.

Machine Learning Engineer
EDISS x TYKS

🗓 10/2023 – 05/2024   ● Turku, Finland

- Led the development of 2 anomaly detection techniques, significantly improving early identification of critical fluctuations in patients' vital signs.
- Engineered a state-of-the-art ECG-based forecasting model, achieving over 98% accuracy in analyzing respiratory signals, advancing neonatal care.

Software Engineer I
Remotebase

🗓 12/2021 – 06/2023   ● Islamabad, Pakistan

- Optimized client engagement by integrating a blog template and analytics tools, boosting conversions by 15%.
- Implemented AWS-based data storage solutions, ensuring reliable and scalable management of interview recordings and form submissions.
- Developed a dynamic client pricing tool, resulting in a more efficient sales process and a 20% reduction in client onboarding time.

EDUCATION

Erasmus Mundus Masters in Data-Intensive Engineering (EDISS)
Åbo Akademi University. / Mälardalens University

🗓 08/2023 – 07/2025   ● Västerås, Sweden

- A double master's program with a focus on Machine Learning and Software Engineering.
- Accepted to receive a full scholarship from the European Union.
- GPA: 5/5

Bachelor of Science in Computer Science
National University of Science and Technology

🗓 01/2019 – 01/2023   ● Islamabad

- CGPA: 3.98/4.0
- Awarded the prestigious Presidential Gold Medal for securing the highest CGPA in the program.