

Ashhad Ahsan Rehman

Machine Learning / AI Engineer

📍 Koblenz, DE

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Quick Summary

Machine Learning Engineer passionate about solving complex problems with data-driven solutions. Skilled in Python, JavaScript, data science, and machine learning with specialization in Generative AI solutions. Collaborative team player seeking to innovate and drive impact in dynamic tech environments.

Skillset

Skills I am comfortable with:

Machine Learning, Python, R, Java, NodeJS, TypeScript, Docker, AWS, OCP, Data Science, Data Analysis, Data Engineering, NestJS, Tensorflow, Pytorch, Transformers, Time Series, Git, Jira, Deep Learning, Rabbit MQ, Redis, Agile, Scrum, Web Scraping, Natural Language Processing, Computer Vision, SQL, MongoDB, Cassandra DB, Dynamo DB, AWS S3, Data Bricks, Tableau, PowerBI,

Generative AI, Apache Spark, Backend Development, ML OPS, Price Optimization, A/B Testing, Apache Airflow, Large Language Models, GPT, Audio Classification, Kubernetes, AWS Bedrock, Google AI, AWS Sagemaker, Langchain, LangGraph, Llama Index, Replicate, RAG, A2A, Agent-to-Agent, FastAPI, Flask, Streamlit, Gradio, Shiny Apps, Domo, TerraForm.

Familiar with:

Apache Kafka, Snowflake, Scala, C++, CUDA.

Professional Experience

Oct 25 – Present Remote 📍 Munich, Germany

Schoene Neue Kinder GmbH

AI Python Engineer (Werkstudent)

Internal Process Improvement Multi-Agent Slack Bot: Architected multi-agent system automating offer generation, lead analysis, and follow-ups via LangGraph with Slack/Gmail/Jira APIs, reducing manual effort by 65% and response time by 50%.

GameMind Agent: Developed a conversational AI platform for game developers using LangGraph with PostgreSQL vector embeddings, boosting idea recall accuracy by 65% through semantic memory retrieval and automated visualization.

AIPM (A2A & MCP): Built an AI Project Manager combining agent-to-agent (A2A) coordination with distinct manager personas (HR Manager, Sales Manager, Technical Manager, Finance Manager) and MCP (Model Context Protocol) integrations with HubSpot, Google Drive, Jira, Slack, and Toggel API; built and connected a custom MCP server.

Intelligent Data Scraping: Created and optimized an AI agent to scrape data intelligently for internal workflows and reporting.

Jul 24 – Jun
25

Remote 📍 Germany

FZI Forschungszentrum Informatik [Visit Site >](#)

Machine Learning Research Assistant

The role includes reading and implementing latest development in Machine Learning in a research based environment related to Anonymization of German Vehicle Number Plates and persons.

Fine-tuned the Meta Segment Anything Model (SAM) for German number plate recognition, achieving a 20% increase in detection accuracy, improving from 75% to 95%.

Conducted multiple iterations of model training, resulting in a 15% reduction in false positives and enhancing detection under varying lighting and weather conditions.

Setup WANDB to monitor the experiments and do fine tuning of the SAM Model.

Feb 22 –
Apr 24

Remote 📍 Dublin, Ireland

GagaMuller Technology [Visit Profile >](#)

Machine Learning Specialist

Lead the Machine Learning Team to develop solutions for different clients and adaption of AI within the company.

Developed a vector database-powered LLM enabled RAG-based chat system for document interaction and graphical insights, resulting in a 25% increase in accuracy and a 30% reduction in query response time.

Fine-tuned ControlNet for the Diffusion Model on CUDA-enabled GPUs, achieving a 25% improvement in image generation speed and a 20% increase in output accuracy for high-quality interior design suggestions.

Aug 19 –
Jan 22

On-Site 📍 Lahore, Pakistan

Data Pilot [Visit Profile >](#)

AI Software Engineer

Worked under diverse team to create state of the art machine learning

Deployed a sound classification algorithm using Facebook's Wave2Vec2 on Raspberry PI, increasing accuracy from 70% to 92%, enabling proactive crime prevention across private properties in the USA.

Leveraged Advanced NLP Models especially BERT for natural language processing tasks, including text generation, sentiment analysis, and entity recognition with high precision.

Academic Profile

2024 –
2026

Masters In Web and Data Science

On-site 📍 Germany

University of Koblenz

On-site Masters Degree

Main Courses: Big Data, Machine Learning, Web Retrieval, Pattern Recognition, Network Theory, Foundation Models.