MUHAMMAD SULEMAN

Data Scientist | AI Automation Engineer | AWS • RAG • LLM

An inspiring Graduate AI Engineer specializing in LLMs, AI Automation (N8N-RAG, Lanchain, and more), NLPs computer vision with hands-on expertise in deploying scalable AI applications using cloud platforms (AWS). Experienced in building scalable NLP systems with LLMs and retrieval-augmented generation (RAG). Proven ability to develop real-time intelligent systems, optimize deep learning pipelines, and build end-to-end prototypes for industry-grade deployment. Seeking to contribute to innovative AI development in a full-time role.

CONTACT

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Github
github.com/Suleman96/

Portfolio
suleman96.github.io/cv_portfolio/

EDUCATION

03.2022 - 09.2025
M. Eng in Artificial Intelligence for Smart Sensors and Actuators
Technische Hochschule Deggendorf
Final Grade: 1.7

09.2015 - 07.2019
B.Sc in Mechanical Engineering
National University of Sciences & Technology (NUST)

SOFT SKILLS

- Analytical thinking
- Problem-solving
- Communication
- Project management
- Crossfunctional teamwork
- Quick learner
- Flexible & adaptable
- Client satisfaction

LANGUAGES

- English - Fluent (C1/C2)
- German - Conversational (B1)
- Urdu / Punjabi - Native
- Hindi - Conversational
- Japanese / Arabic - Basic

WORK EXPERIENCE

AI Product Intelligence Engineer - Werkstudent
01.2022 - Present
Astek Heimtextil GmbH - Fürth, Germany
- Collaborated directly with client to gather feedback, resolve issues, and tailor solutions for client satisfaction.
- Designed system architecture flowcharts, improving alignment and reducing feedback cycles.
- Built a FastAPI ingestion layer for Shopify webhooks, enabling efficient batch imports.
- Developed scalable data workflows via GraphQL and REST APIs.

Tools: Python, GraphQL, RESTful API, FastAPI, GPT-4, Client Satisfaction, PIMCore

Artificial Intelligence Engineer - Intern
04.2022 - Present
Diplotech Solutions - Berlin, Germany
- Developed an intelligent chatbot using Google Dialogflow ES, improving client engagement and reducing first-response time by over 90%
- Designed a user-friendly chatbot interface with HTML/CSS.
- Deployed via AWS EC2, maintaining 99.9% uptime and ensuring scalable 24/7 customer support.
- Proactively addressed client feedback to optimize deployment and ensure smooth user adoption.
- Built a semantic recommendation app, leveraging LLM-based text embeddings, FAISS vector search, and the RESTful Google Books API for RAG System.

Tools: AWS, Google API, RESTful API, Prompt Engineering, RAG, Google Dialogflow

Research Student - Master Thesis
12.2023 - 10.2024
Technische Hochschule Deggendorf - Freyung, Germany
- **Title:** *Dynamic Environment Perception for Autonomous System: Real-Time Approach to Obstacle Detection (Grade 1.3)*
- Conducted meta-analysis of segmentation and relative depth estimation models.
- Collected and processed datasets for training segmentation models.
- Developed an obstacle detection system for autonomous lawn mower on NVIDIA Jetson Nano.
- Successfully optimized inference speed: reduced latency by 52% (2.25x detection speed)

Tools: Transformers, Segmentation, Depth Estimation, Latex, TensorRT, Linux

Student Research Assistant
04.2023 - 11.2024
Technische Hochschule Deggendorf - Freyung, Germany
- Project HAUSL: Developed real-time obstacle detection algorithms using monocular vision.
- Performed intrinsic and extrinsic camera calibration and real-time visual mapping.
- Evaluated and implemented machine learning techniques, including ORB, SIFT, and YOLOv8 for robust feature detection.
- Development and augmentation of test datasets encompassing potential obstacle features for robust visual detection.

Tools: Yolov8, cv2, Depth Estimation, Image Detection, Segmentation

Research Assistant
12.2020 - 04.2022
Digital Pakistan Lab (DPL) - Islamabad, Pakistan
- Designed, developed, and documented industrial prototypes (Product Design & Development)
- Conducted structural simulations and 3D prototyping to optimize designs for embedded applications.

Tools: Product Design, Structural Analysis, 3D Modelling and Printing, Project Management

TRAININGS & CERTIFICATES

- The Complete Agentic AI Engineering Course – **Udemy (2025)**
- AI Automation: Build LLM Apps & AI-Agents with n8n & APIs – **Udemy (2025)**
- Python for Computer Vision with OpenCV and Deep Learning – **Udemy (2024)**
- Python Bootcamp 2021- Build 15 working Applications & Games – **Udemy (2021)**
- Introduction to JavaScript – **Test Automation (2020)**
- Microsoft Office Specialist 2013: Word, Excel, PowerPoint – **Microsoft (2017)**

ACCOMPLISHMENTS

- Best Intern of the Month - **Diplotech Solutions 2025**
- Finalist @'Finding Innovation and Creative Solutions (FICS)' Competition - **NUST (2019)**
- Director Graphics - **Youth Impact (2018)**
- General Secretary of Media and Graphics - **SAS NUST (2019)**

MORE INFO

- Willing to travel
- Willing to relocate

INTERESTS

- Affinity for new technologies
- Enthusiasm for learning
- Travelling, Hiking, Reading, Basketball

Fürth, August, 2025

TECHINCAL SKILLS

Programming Languages
Python, SQL, C++, MATLAB, Latex, CSS, HTML, Bash

AI / Machine Learning
LLMs (GPT-4, Claude 3.7), Prompt Engineering, RAG, Hugging Face, TensorFlow, RESful APIs, FastAPI, AI Agent Workflow (Langchain, Cursor), Fine-Tuning, Performance Evaluation

Data & Cloud Tools
AWS, Google Console Platform (GCP), Docker, VirtualBox, MLOps, MySQL, PostgreSQL, Azure ML (Basic)

Engineering Software
Tableau, ROS, Gazebo, MIR, Power BI, Microsoft Office Certified, SolidWorks, PTC Creo, ANSYS

Data Engineering
PIMCore, Data Analysis, Data Modelling, Data Visualization, Data Pipelines, CI/CD (GitHub Actions), Agile, Notion

Libraries & Frameworks
PyTorch, NumPy, Pandas, Scikit-learn, Kivy, OpenCV

PROJECTS

AI-Powered Book Recommendation System with RAG and LLM Integration
Developed an LLM-powered book recommendation web app using Gradio, FAISS-based (vector indexing) RAG, and Google Books API for intelligent, prompt-based local and external search.

AI Driven Adjustment of Public Images/Video for Compliance to General Data Protection Regulation (GDPR)
Built an object detection and tracking model using MobileNet and YOLOv7, annotated through Roboflow, enabling automated privacy blurring for live webcams, images, and videos.

Personalized Fitness Recommender App
Developed a Kivy-based mobile app using LSTM to capture, analyze, and visualize user movements. Stored and managed user data effectively using a PostgreSQL database.

Flood Prediction of Passau
Applied time series models (ARIMA, MLP) on tabular time series historical water level and precipitation data for flood forecasting. Validated models using RMSE, delivering actionable insights for early-warning systems.