



Maha Saad

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PROFESSIONAL EXPERIENCE

AI Software Developer

Institute for Factory Automation and Production(FAPS) 🌐

09/2024 – 03/2025
Erlangen, Germany

- Developed pose estimation algorithms using rotation matrices and Euler angles.
- Improved accuracy by 25% through the integration of Pyvista for 3D visualization and validation.
- Tools: Python, Computer Vision, GitLab, Matplotlib, PyQt5

Software Developer

Technical University of Munich, Germany 🌐

03/2023 – 08/2024
Munich, Germany

- Built an R Shiny application predicting forest growth and deforestation trends over 10 years.
- Integrated machine learning models and real-time data updates, boosting processing efficiency by 40%
- Tools: R, Shiny, RandomForest, Ggplot2

Lecturer and Lab Assistant

The City University Peshawar, Pakistan 🌐

11/2021 – 05/2023
Peshawar, Pakistan

- Taught Software Requirements Specification and Design & Development to 30+ students.
- Increased course completion and grade performance through hands-on learning approaches.
- Tools: LaTeX, UML, SmartDraw, GitUML

Lecturer

The Brains, Institute 🌐

12/2020 – 10/2021
Peshawar, Pakistan

- Taught subjects: Digital Logic Design, Software Engineering, and Object-Oriented Programming.
- Tools: Python, Java, CircuitVerse, PyCharm

EDUCATION

Master in Artificial Intelligence

Friedrich-Alexander-Universität Erlangen-Nürnberg

10/2023 – present
Erlangen, B, Germany

Bachelors of Computer science

University Of Peshawar 🌐

10/2010 – 12/2014
Peshawar, Pakistan

SKILLS

Languages

Python, R, C++, Java

Machine Learning & Deep Learning

PyTorch, TensorFlow, Keras, Scikit-learn

Version Control & CI/CD Workflows

Git, GitHub, Docker

Computer Vision

OpenCV, Pillow, scikit-image

Generative AI and LLMs

LLMs, OpenAI GPT, RAG

Statistical Analysis & Experimentation

Probability, Statistics

LANGUAGES

English

B2

German

B1 (in progress)

PROJECTS

Leveraging Segmentation Networks for Watermark Typology Matching in WZIS

Design and development of Smart Mirror [↗](#)

Notes Recognition in Asian Sitar [↗](#)

Android app for Reservation of restaurant

Data retrival using RAG and LLM models [↗](#)

PUBLICATIONS

ResolDep Mirror: An AI-powered smart mirror for detecting depression

Journal of Medical and Clinical Machines, 2022

AWARDS

Talent Youth Certificate

2014

WORKSHOPS

AI and Machine Learning Applications, Stuttgart, Germany

IT Project Management Training, Fürth, Germany