Muzna Maryam

+49 162-9392710 | muzna.maryam@stud.th-deg.de | mygit.th-deg.de/mm08054

EDUCATION

Deggendorf Institute of Technology   Deggendorf, Germany
BSc Artificial Intelligence   *March 2026*

WORK EXPERIENCE

SAP SE, Walldorf, Baden-Württemberg, Germany   September 2023 – September 2024
Analytics and Legal Compliance Intern

- Conducted comprehensive Java code testing on SAP's ERP system, Iungo, using IntelliJ, PostgreSQL, Apache, and Tomcat to identify and resolve corner cases, thereby enhancing system reliability.
- Developed Python scripts using <u>ack</u> program for SAP's String Search Tool, enabling users to efficiently search and extract specific items from SAP repositories, with results presented in Excel format for enhanced data analysis.
- Assisted the engineering team in identifying software licenses by performing IP scans to ensure compliance with licensing requirements.

PROJECTS

AIDS Infection Prediction Model | *Python, Scikit-Learn, Matplotlib, Seaborn*

- Coded an AIDS infection prediction model with an accuracy of 80%.
- Implemented models including RandomForestClassifier, XGBClassifier, and DecisionTreeClassifier; utilized techniques like cross-validation and confusion matrix analysis to ensure robust predictions.

American Sign Language (ASL) Alphabet Detection using Jetbot | *OpenCV, TensorFlow, MediaPipe, Flask*

- Developed a real-time ASL recognition system integrated into a Jetbot via Flask API.
- Implemented hand detection and landmark extraction with MediaPipe and trained CNNs on augmented datasets for robust ASL sign recognition.

Titanic Survivor App | *Python, FastAPI, VueJs, Docker, Jira*

- Implemented a Titanic survivor prediction web app using Python (FastAPI) and Docker, integrating 5 ML models (RF, DT, KNN, SVM, LR) for survival predictions.
- Managed project development using GitLab, Scrum methodologies, and automated testing frameworks, including Pytest for frontend unit and integration tests and Cypress for end-to-end (E2E) tests.

SPECIALIZATIONS & CERTIFICATES

Data Engineering Foundations | *LinkedIn Learning, SAP*   Training - ETL pipelines, data wrangling, tools
Applications of Medical Technology | *VHB Bayern*   Training - Medical technology applications

SOCIAL ACTIVITIES

Sutoon NGO Events Department, Lahore, Pakistan   July 2021 – July 2022
Human Resource and Management Intern

- Planned and executed fundraisers and digital literacy campaigns, which were attended by 100+ students.
- Organized and hosted a series of 10 podcasts by leading social entrepreneurs of Pakistan.

TECHNICAL SKILLS

Languages: Java, Python (NumPy, Pillow, Tkinter, Scikit, Pandas, Matplotlib, Seaborn), SQL, JavaScript, HTML/CSS, R, React, Node.js, Latex, SAP ABAP
Developer Tools: Git, VS Code, PyCharm, Eclipse, IntelliJ, PyQT6, Docker, AutoGPT, Jira, SAPUI5

LANGUAGE SKILLS

Urdu: Native Speaker — **English**: Mother tongue — **German**: Intermediate — **Japanese**: Beginner