

# YOUSSEF MOHAMED

AI/ML Student | Fullstack Developer

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## SUMMARY

I am Youssef, an AI student at Technische Hochschule Deggendorf, passionate about building intelligent solutions that make a real-world impact. With experience in natural language processing (NLP), machine learning, computer vision and GenAI, I specialize in developing computer vision programs, AI powered chatbots and automation tools.

## EXPERIENCE

Full-stack and Computer Vision Model Developer	07/2024 - 10/2024
<b>Saspa Furniture</b>	Kuwait City, Kuwait
<ul style="list-style-type: none"><li>Assisted in designing and developing the company website and a responsive landing page.</li><li>Implemented front-end features using HTML, Tailwind CSS, and TypeScript, and integrated back-end services with Node.js/Express and database connectivity.</li><li>Used convolutional neural networks to build a computer vision model that can classify room shapes and sizes and the appropriate furniture type to fit them.</li><li>Developed and integrated high-quality WebGL shaders for product visualizations.</li><li>Pioneered the use of Unity for interactive 3D product demos.</li><li>Collaborated closely with the design team to optimize usability and performance.</li></ul>	

## PROJECTS

Fashion MNIST Classifier	02/2025 - 04/2025
Munich, Germany	
<ul style="list-style-type: none"><li>Built a convolutional neural network classifier trained on Zalando's Fashion MNIST dataset, achieving up to 93% accuracy.</li><li>Dockerized and deployed the model as an interactive Streamlit app on Render for accessible, real-time predictions.</li></ul>	
<a href="https://fashion-mnist-classifier.onrender.com/">https://fashion-mnist-classifier.onrender.com/</a>	
Canadian Port Entry Prediction Model	09/2024 - 11/2024
Deggendorf, Germany	
<ul style="list-style-type: none"><li>Developed a Streamlit application that predicts entry into Canadian ports from various regions and transport modes using regression algorithms.</li><li>Designed an intuitive user interface for real-time predictions and data exploration across multiple transportation scenarios.</li></ul>	
<a href="https://github.com/blanconaldo/Canadian-Port-Entry-Prediction-Model">https://github.com/blanconaldo/Canadian-Port-Entry-Prediction-Model</a>	
Titanic Survivor App	03/2025 - 07/2025
Deggendorf, Germany	
A website for a AI solutions company advertising their AI models, showcasing the Titanic Survivor App and people's chances of survival. Follows best modern practices, git submodules and Scrum.	
<ul style="list-style-type: none"><li>Implemented the model backend with different models for the titanic dataset for showing different results of the models.</li><li>Assisted in creating the database connectivity using SQLAlchemy and connected different submodules using API endpoints.</li><li>Developed CI/CD pipelines in GitLab and docker-compose and was responsible for maintaining DevOps in the project.</li></ul>	

## EDUCATION

Bachelor of Science in Artificial Intelligence	10/2023 - Present
Deggendorf Institute of Technology	Deggendorf, Germany

## KEY ACHIEVEMENTS

- ⌚ Optimized Page Load Time  
Led a project that reduced the application's load time by 40% through code optimization and lazy loading.
- 🏆 Increased User Satisfaction  
Collaborated on a UI/UX redesign that boosted user satisfaction by 30%.
- ❤️ Enhanced Customer Engagement  
Developed interactive 3D product demos using Unity, leading to a 25% increase in customer engagement.
- ⭐ Team Leader For A Project  
Led the team to project completion according to deadlines in the Scrum framework, improving team productivity.

## SKILLS

Artificial Intelligence · Machine Learning ·  
Deep Learning · Neural Networks ·  
Python · Tensorflow · Pytorch ·  
Computer Vision · Regression ·  
Classification · Postgres Database ·  
GenAI · LLMs · Chatbots · Automation ·  
n8n · NLP · AI Agents · RAG · LangChain ·  
React · Node.js · Type/JavaScript ·  
Tailwind CSS · HTML · WebGL ·  
RESTful APIs · Docker · Vercel · Render ·  
Git · GitHub/Lab · DevOps · CI/CD · AWS ·  
Azure · Testing · JIRA · Scrum · Agile

## CERTIFICATION

- Computing Foundations: Data, ML, and AI in Google Cloud  
Covering collection, storage and management of big data.
- Introduction to Machine Learning on AWS  
Certification covering heavy lifting of computer vision, data extraction, speech recognition, ML model.