



# Mohammad Odeh

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## PROFESSIONAL SUMMARY

Machine Learning Engineer with 2+ years of hands-on Python experience, delivering end-to-end AI and data solutions. Skilled in computer vision, NLP, time-series forecasting, and deployment using Flask, cloud tools, and docker. Passionate about solving real-world problems through AI and committed to continuous learning and innovation

## EXPERIENCE

### AI Engineer (Part-time)

Medus Praxis

Düsseldorf, Germany (Remote)

December 2024 – July 2025

- Built and integrated an **AI chatbot using Retrieval-Augmented Generation (RAG)** over **ICD-10 medical data**, improving retrieval accuracy, contextual understanding, and response consistency for physiotherapy use cases.
- Contributed to **production-ready Android and iOS applications**, exposing AI capabilities through a stable cross-platform interface.
- Designed and implemented **OCR pipelines for handwritten German medical forms**, enabling structured data extraction from real-world clinical documents.
- Evaluated and optimized **OCR model performance and image preprocessing techniques** to improve accuracy, robustness, and reliability on noisy scans and photographed forms.

### Data Science Specialist – AI Trainer (Independent Contractor)

Outlier AI

USA (Remote)

May 2024 – Dec 2024

- Leveraged data science experience to train and enhance cutting-edge generative AI models.
- Developed and executed robust test cases to ensure AI-generated code efficiency.
- Evaluated and improved the accuracy of AI-generated code and managed chatbot content

### Machine Learning Engineer – AI Residency (Contract)

Apziva

Turkey (Remote)

September 2023 – March 2024

- Worked on machine learning and AI projects across various industries and problem domains.
- Designed, implemented, and deployed machine learning models.
- Prepared detailed reports and comprehensive documentation

### Data Science Intern

Data Glacier

India (Remote)

February 2021 – May 2021

- Conducted end-to-end modeling and deployment (API, Flask, Docker).
- Prepared data and performed exploratory data analysis on complex datasets.
- Prepared final reports for models and business problems.

### Electronic Engineer

Zero Ohm Electronics

Dubai, United Arab Emirates

March 2018 – April 2021

- Prepared cost estimates and technical documentation for electronic projects.
- Designed and simulated electronic circuits and embedded systems for client-specific solutions.

## EDUCATION

### Diploma of Advanced Studies – Digital Infrastructure, Data Analytics, and AI

Steinbeis University

Berlin, Germany

July 2025 - Present

- program focused on software development, data analytics, cloud/edge computing, and AI deployment.

### BSc Electrical Engineering

Fujairah, United Arab Emirates

- GPA: 3.66/4
- Studied electrical, electronics & communication systems; gained foundation in C, C++, MATLAB, Python

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## PROJECTS

### Stock Forecaster:

- Built LSTM-based stock prediction model with automated trading strategy and buy/sell signals.
- Visualized forecasts with Bollinger Bands and evaluated strategy returns/performance.

### FlipScan-AI:

- Mobile document digitization using MobileNet V2 for page-flipping detection (0.99 F1-score).
- Created user-friendly web interface with Gradio and Hugging Face integration.

### Talents Insight Tool

- ML/NLP talent sourcing system using NLTK tokenization and pre-trained BERT vectors.
- Ranked candidates via cosine similarity matching with target job keywords.

### Happiness Insight:

- Customer satisfaction prediction using ML models (SVM, Decision Tree, Logistic Regression, KNN).
- Performed EDA and Grid-Search optimization; SVM achieved 78% accuracy, 0.8 F1-score.

**Additional projects available on GitHub: [GitHub profile @ github.com/m-odeh](https://github.com/m-odeh)**

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## SKILLS

- **Programming Languages:** Python, SQL, C++
- **Data Science:** Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn, Plotly
- **Deep Learning:** TensorFlow, Keras, PyTorch, Transformers, OpenCV
- **Cloud & DevOps:** AWS, Google Cloud Platform, Docker
- **Web Development:** Flask

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## PROFESSIONAL DEVELOPMENT

### **TensorFlow Developer Professional Certificate, DeepLearning.ai**

*August 2020*

- Designing AI models with Deep Learning, NLP, and RNNs.

### **IBM Data Science Professional Certificate, IBM Training**

*August 2019*

- Hands-on experience with tools such as Python and SQL for data science projects

### **Neural Networks & Deep Learning Certification, DeepLearning.ai**

*October 2017*

- Gained practical experience by developing deep learning models for classification.

### **Machine Learning Certification, Stanford University on Coursera**

*July 2017*

- Developed multiple machine learning models using algorithms: Logistic Regression, SVM, Random Forest, KNN.

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## LANGUAGES

English (C1) , Arabic (Native), German (A1)

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## REFERENCE

Sandeep Sricharan Mukku - Applied Science @ Amazon ( <https://www.linkedin.com/in/sandeepsricharan> )