

RODWAN BAGDADI

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EDUCATION

German Jordanian University

Bachelor of Mechatronics and AI Engineering

July 2025

Madaba, Jordan

- Relevant Coursework: Machine Learning, Neural Networks, Statistics, Computer Vision

Bochum University of Applied Sciences

Exchange Semester

Sep 2023 – Mar 2024

Bochum, Germany

WORK EXPERIENCE

MAKE WORK FLOW

Junior Software Developer

Sep 2025 – Present

Amman, Jordan

- Develop and maintain customer **dashboards**, collaborating with stakeholders to define **KPIs**, validate data pipelines, and ensure clarity, accuracy, and usability across different user profiles
- Build an **AI-powered** customer support **chatbot** using **Python** to handle inquiries related to **dashboards** and reporting logic, improving response efficiency and user experience

Bosch Engineering GmbH

Software Engineering Intern

Mar 2024 – Sep 2024

Abstatt, Germany

- Implemented advanced **state estimation systems** using **Kalman Filters** in **MATLAB** and **Python**, demonstrating proficiency in both linear and non-linear system modeling for real-time applications
- Conducted **model experimentation** and **performance testing** with internal **GPT-3.5 Turbo** models, applying **prompt engineering** techniques to optimize AI system accuracy and reliability
- Collaborated with cross-functional teams to **deploy ML models** into production environments, ensuring quality metrics and performance standards were met

PROJECTS

Fake News Detection | Graduation Project

Flask API | XGBoost | BERT

- * Built comprehensive **NLP pipeline** with **data preprocessing**, **augmentation**, and **TF-IDF vectorization**, achieving **92% accuracy** through systematic model training and validation
- * Fine-tuned **DistilBERT transformer model** using **Hugging Face** frameworks, implementing advanced **pattern recognition** techniques for nuanced text classification
- * Developed an **ensemble approach** combining multiple **ML algorithms** (**SVM**, **LightGBM**, **Random Forest**) with comprehensive testing and validation achieving **90% precision** across models
- * Deployed a production-ready system with **Flask API** integration, implementing real-time inference capabilities and comprehensive model performance monitoring

Diabetes Classifier

Random Forests | SVM | KNN

- * Developed robust **classification model** using **Support Vector Machine** on healthcare dataset of **70,692 samples**, achieving **74.92% accuracy** through systematic **data preparation** and feature selection
- * Conducted comprehensive **model benchmarking** across 4 **ML algorithms**, implementing **cross-validation** and **hyperparameter tuning** to ensure optimal performance and prevent overfitting

TECHNICAL SKILLS

Programming Languages: Python, MATLAB, HTML, SQL

AI/ML Frameworks: PyTorch, TensorFlow, Scikit-learn, Hugging Face

Data Science Libraries: Pandas, NumPy, Matplotlib, Seaborn

Development Tools: Git, VS Code, Flask, FastAPI

Databases & Systems: MySQL, Power BI

NLP & ML Concepts: Text Classification, Feature Engineering, Model Optimization, Ensemble Methods

Languages: Arabic (Native), English (Fluent), German (Intermediate B1)