Rodwan Bagdadi

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EDUCATION

German Jordanian University

July 2025

Bachelor of Mechatronics and AI Engineering

Madaba, Jordan

Bochum University of Applied Sciences

Sep 2023 - Mar 2024

Exchange Semester

Bochum, Germany

WORK EXPERIENCE

Bosch Engineering GmbH

Mar 2024 - Sep 2024

Software Engineering Intern

Abstatt, Germany

- Developed and optimized machine learning models using Ensemble Learning and Random Forests in Python, achieving top 20% performance on Kaggle competition through advanced feature engineering and model optimization techniques
- 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
- Applied **prompt engineering** techniques with internal **GPT-3.5 Turbo** models, conducting systematic evaluations and optimizations to maximize AI model performance

PROJECTS

Fake News Detection System | Graduation Project

Flask |XGBoost||BERT

- * Built an end-to-end NLP pipeline using TF-IDF vectorization and XGBoost classifier, achieving 92% + accuracy on fake news detection with comprehensive preprocessing and feature extraction
- * Integrated DistilBERT transformer model from Hugging Face for advanced text classification, leveraging pre-trained embeddings and fine-tuning techniques to capture nuanced linguistic patterns
- * Developed ensemble approach combining multiple ML algorithms (SVM, LightGBM, Random Forest, Logistic Regression) with consistent 90%+ precision and recall across models
- * Deployed scalable web application using Flask backend and HTML for frontend for real-time prediction capabilities

Business Intelligence Analytics Platform

Power BI MySQL Python DAX

- * Engineered comprehensive data pipeline connecting MySQL databases to Power BI dashboards, implementing automated data preprocessing and currency normalization for multi-regional analysis
- * Applied statistical analysis and pattern recognition to identify key business insights including Pareto principle validation (top 20% customers = 80% revenue)

Diabetes Classifier

Python | SVM | Scikit-learn | Pandas

- * Developed robust binary classification model using Support Vector Machine on healthcare dataset of 70,692 processed samples, achieving 74.92% accuracy through systematic data cleaning and feature selection
- * Conducted comprehensive model benchmarking across 4 algorithms (SVM, KNN, Random Forests, Decision Trees), implementing cross-validation and hyperparameter tuning to 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: MvSQL, Power BI

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

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