

RODWAN BAGDADI

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🌐 [Linkedin](#)

🐙 [Github](#)

📁 [Portfolio](#)

EDUCATION

German Jordanian University

Bachelor of Mechatronics Engineering

Expected Graduation: June 2025

Madaba, Jordan

Bochum University of Applied Sciences

Exchange Semester

Sep 2023 – Mar 2024

Bochum, Germany

WORK EXPERIENCE

Outlier AI

AI Specialist (freelancer)

Dec 2024 – Present

Remote

- Enhanced AI model accuracy by implementing **Reinforcement Learning from Human Feedback (RLHF)** techniques, reducing incorrect predictions by **20%** across a dataset of **100+ entries**
- Improved the accuracy and reliability of model outputs by identifying factual inconsistencies, fixing logical errors, and rewriting responses to better follow implicit and explicit instructions from the prompt

Bosch Engineering GmbH

Software Steering Intern

Mar 2024 – Sep 2024

Abstatt, Germany

- Designed and simulated advanced state estimation systems using **Kalman Filters** in **MATLAB** and **Python**, demonstrating their limitations in non-linear dynamics and irregular sensor sampling through hands-on modeling of both linear and non-linear systems
- Mastered **prompt engineering** principles while leveraging an internal **GPT-3.5 Turbo** model to validate AI-generated outputs, conducting cross-linguistic evaluations and learning how to optimize prompt structure, and tone to maximize clarity and truthfulness in internal decision-support tasks
- Built a predictive model using **Ensemble Learning** and **Random Forests** in Python to forecast Titanic survival outcomes, experimenting with feature selection and data preprocessing to achieve **top 20%** leaderboard placement and highlight the tradeoff between model complexity and generalization

PROJECTS

Fake News Detection | [Graduation Project](#)

[HTML](#) | [Flask API](#) | [Gradient Boosting](#)

- Achieved an accuracy of **99.79%** by developing and fine-tuning an **XGBoost**-based fake news detection model using **TF-IDF vectorization** and key metadata features from a labeled dataset
- Enhanced overall model performance with precision and recall both **exceeding 99%**, through iterative evaluation and tuning of advanced machine learning models including **SVM**, **LightGBM**, **Random Forest**, and **Logistic Regression**
- Deployed the trained model using **Flask** as a backend service, integrating it with an interactive **HTML** frontend to create a fully functional web-based fake news detection platform for real-time predictions

Diabetes Classifier

[SVM](#) | [KNN](#) | [Random Forests](#) | [Decision Trees](#)

- Achieved a **74.92%** accuracy by developing a diabetes prediction model using **Support Vector Machine (SVM)** on a cleaned dataset of **70,692 cases** derived from **253,680 survey responses**
- Improved classification reliability by selecting **21 relevant features** out of **330** and applying preprocessing techniques such as data balancing, scaling, and handling of missing values
- Compared four machine learning algorithms (**SVM**, **KNN**, **Random Forests**, **Decision Trees**), demonstrating **SVM** superior performance while highlighting overfitting issues in tree-based models

TECHNICAL SKILLS

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

Coding Languages: Python, MATLAB, HTML

Developer Tools: Git, VS Code, Visual Studio, PyCharm

Libraries: Pandas, NumPy, Matplotlib, PyTorch, SciKit-learn, Seaborn, TensorFlow