Rodwan Bagdadi

✓ rodwanbagdadi@gmail.com

→ +962 777 106 247 **=** rodwanbagdadi.dev

in linkedin.com/in/rodwanbaghdadi/

github.com/Rodwanbagdadi

EDUCATION

German Jordanian University

Expected Graduation: June 2025

Bachelor of Mechatronics Engineering

Madaba, Jordan

Bochum University of Applied Sciences

Sep 2023 - Mar 2024

Exchange Semester

Bochum, Germany

WORK EXPERIENCE

Outlier AI

Dec 2024 - Present

AI Specialist (freelancer)

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

Mar 2024 - Sep 2024

Software Steering Intern

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

Flask Gradient Boosting BERT NLP

- * Adapted and fine-tuned an XGBoost-based fake news detection model using TF-IDF vectorization and key metadata features, achieving over 92% accuracy on a labeled public dataset
- * Enhanced model robustness and generalization through iterative evaluation and tuning of advanced machine learning models, including SVM, LightGBM, Random Forest, and Logistic Regression, with precision and recall consistently above 90%
- * Integrated a state-of-the-art DistilBERT transformer-based language model to capture nuanced linguistic patterns, further improving detection of subtle misinformation
- * Deployed the ensemble of models using Flask as a backend service, with an interactive HTML frontend for real-time, web-based fake news detection and user feedback

Diabetes Classifier

SVM| KNN| Random Forests

- * 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
- * Compared 4 machine learning algorithms (SVM, KNN, Random Forests, Decision Trees), demonstrating SVM's superior performance while highlighting overfitting issues in tree-based models

TECHNICAL SKILLS

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

Coding Languages: Pyhton, MATLAB, HTML

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

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