

RODWAN BAGDADI

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EDUCATION

German Jordanian University <i>Bachelor of Mechatronics and AI Engineering</i>	July 2025 <i>Madaba, Jordan</i>
• Relevant Coursework: Machine Learning, Neural Networks, Statistics, Computer Vision	
Bochum University of Applied Sciences <i>Exchange Semester</i>	Sep 2023 – Mar 2024 <i>Bochum, Germany</i>

WORK EXPERIENCE

MAKE WORK FLOW <i>Junior Software Developer</i>	Sep 2025 – Present <i>Amman, Jordan</i>
• 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 <i>Software Engineering Intern</i>	Mar 2024 – Sep 2024 <i>Abstatt, Germany</i>
• 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 <i>Graduation Project</i>	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)