

Amine Kina

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Education

Master's in Artificial Intelligence and Intelligent Systems, University of Bremen

10/2024 - Present

Advanced Machine Learning - Advanced Methods of AI - Integrated Intelligent Systems

Bachelor's in Robotics and Intelligent Systems, Jacobs University Bremen

09/2020 - 08/2023

Automation - Artificial Intelligence

Work Experience

Research Assistant in Data Lab, Jacobs University

01/2024 - 08/2024 [github-repo](#), [documentation](#)

- **Developed a scalable microservices-based Movie Recommendation System**, leveraging **Docker, Kafka, and Spring Boot** to enable efficient communication and real-time data processing across multiple independent services.
 - **Implemented a hybrid recommendation model** while optimizing **Precision@10 and Recall@10** metrics for personalized and diverse recommendations.
 - **Built an advanced monitoring and evaluation framework** using **Prometheus, Grafana, and Locust**, tracking key system metrics, detecting anomalies, and dynamically retraining models when performance drops.
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Projects

Stock Price Prediction and Trading Agent

[github-repo](#)

- Developed a stock price prediction and trading agent by integrating LSTM-based time series forecasting with a DQN-based reinforcement learning model in a Gym-compatible trading environment.

PillChat Tool

[github-repo](#)

- Leveraged Large Language Models (LLM) and Retrieval-Augmented Generation (RAG) techniques to understand and process user queries while ensuring contextually relevant responses by integrating external knowledge sources

Maximize Tips Revenue: Predictive Modeling Based on Weather Conditions and Day of the Week

[github-repo](#)

- This project aims to optimize tip earnings by predicting the best days to work based on weather conditions and day of the week. Using historical data on tips, weather, and order prices, a machine learning model (Random Forest Regressor) is trained to forecast tip amounts.
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Skills

Technical

Python, C++, R, Java (SpringBoot), Docker, Pytorch, API, Kafka, Grafana, Nginx, Redis, AWS

Languages

English(C2), French(C2), Arabic(C2), German(B1)