Khalid Sabban

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EDUCATION

Ulster University   **Birmingham, England**
MS Computer Science and Technology   *Expecter October 2025*
<u>*Relevant courses:*</u> *OOP, Probability and Statistics, Data Structure, Programming, Algorithms, Analysis, Algebra.*

Abdelmalek Essaadi University   **Tetouan, Morocco**
BS in Computer Science and Applied Mathematics   *July 202*
<u>*Relevant courses:*</u> *Big Data, Deep learning, Data mining, Machine learning, Statistical modeling, Scalable Software Solutions leveraging Cloud Infrastructure.*

PROJECTS

Cats vs. Dogs Classification using PyTorch   January 2024 - March 2024
- Designed and implemented a Convolutional Neural Network (CNN) using PyTorch, focusing on reducing overfitting and improving accuracy.
- Applied data augmentation techniques, such as rotation, flipping, and scaling, to improve model generalization.
- Achieved an accuracy of 80% on the test set, tracking performance using cross-entropy loss and accuracy.

Airbnb new user bookings prediction   Mars 2023 - June 2023
- Bachelor's final year project, with a team of 3.
- Developed a machine learning model to predict destination choices for new Airbnb users, aiming to personalize travel recommendations.
- Preprocessed user demographics and behavioral data, engineered features, and tested multiple supervised learning algorithms (e.g., Random Forest, XGBoost) to optimize prediction accuracy.
- Achieved a final accuracy of 84%, with the model outperforming baseline metrics and providing actionable insights for user engagement improvements.

Used Laptop Price Evaluation   Mars 2023 - June 2023
- Developed, trained, and tested a supervised machine learning model to power an interactive dashboard for users to determine optimal laptop resale pricing.
- Leveraged Pandas, scikit-learn, XGBoost, and Streamlit for data preprocessing, model training, and user-friendly deployment.

CERTIFICATES SPECIALIZATION (COURSERA)

Natural Language Processing Specialization.

INTERNATIONAL COLLEGIATE PROGRAMMING CONTEST

06/2022 ICPC ACPC Kickoff Online Individual Contest
10/2021 ICPC: Moroccan Collegiate Programming Contest
01/2016 Middle school honor (get first place in the class)
04/2015 Middle School Math Olympiad

IT SKILLS

Languages	English(Full proficiency), Arabic(Native), French(Limited).
Programming	Python (Tensorflow, PyTorch, Numpy, Pandas…), C++.
Tools	Git, VSCode, Jupyter Notebook.

ACTIVITIES

Volunteering	Provided one-on-one math tutoring sessions for high school students.
Climbing	Climbed several mountains in Morocco.
Sport	Running, Boxing, Calisthenics.