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HAMID ETTAYYEBI

Data Scientist

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SKILLS

Programming	Python (Pandas, NumPy, SciPy, Scikit-Learn, TensorFlow, Keras, XGBoost, Plotly), SQL (MySQL)
Machine Learning	Deep Learning, Predictive Modeling, Feature Engineering, Model Deployment, Time Series Forecasting, Fine-Tuning, Machine Learning Pipelines, Regression Analysis, Geospatial Analysis
Data Visualization	Matplotlib, Seaborn, Plotly, Interactive Dashboards, Choropleth Maps
Tools & Platforms	Git/GitHub, Docker, Streamlit, Dash, Jupyter Notebooks, LaTeX
Soft Skills	Data Storytelling, Problem Solving, Critical Thinking, Research Methodology, Domain Translation
Languages	Arabic (Native), English (C1), French (B2), Italian (Basic/Beginner)

TECHNICAL EXPERIENCE

Research Assistant / PhD Candidate (in Data Science) <i>Mohammed V University</i>	Jan 2017 - Sep 2021 <i>Rabat, Morocco</i>
<ul style="list-style-type: none">Developed and optimized Artificial Neural Networks models for daily solar radiation forecasting, reducing Normalized Root Mean Square Error by 15% compared to traditional models such as SARIMA, Exponential Smoothing, allowing more efficient energy grid management and optimized resource allocation for renewable energy systems.Published and presented two peer-reviewed articles on solar radiation forecasting, advancing methodologies in renewable energy predictions.	
Mathematics Teacher <i>Regional Academy for Training and Education</i>	Sep 2017 - Aug 2024 <i>Rabat, Morocco</i>
<ul style="list-style-type: none">Applied data-driven analysis to evaluate student performance trends, implementing a custom analytics dashboard that tracked progress metrics, leading to a 20% improvement in student scores.Developed structured lesson plans using an analytical approach to make complex concepts more accessible for students.	

PROJECTS

Rentelligence AI: Predicting Italian Rental Prices <i>Personal project - GitHub Blog</i>	Jan 2025 - Apr 2025 <i>Rome, Italy</i>
<ul style="list-style-type: none">Developed an XGBoost regression model for Italian rental prices, achieving a confidence level of 82.32%, with a mean absolute error of just €303, enabling renters and landlords to make data-driven decisions in Italy's diverse housing market.Created an interactive web application using Streamlit that allows users to input property features and receive instant price predictions, incorporating interactive choropleth maps and regional price comparisons to visualize market trends across different Italian regions and cities, enhancing market transparency and user decision-making capabilities.	
Transformer-Based Global Horizontal Irradiance Forecasting <i>Personal project - GitHub DOI: 10.13140/RG.2.2.36728.15365</i>	Aug 2024 - Jan 2025 <i>Rome, Italy</i>
<ul style="list-style-type: none">Inspired by NLP problems, developed a novel Transformer-based model for Global Horizontal Irradiance (GHI) forecasting, achieving a 20% reduction in Root Mean Squared Error compared to LSTM models, improving solar energy system efficiency by providing more accurate predictions of hourly GHI, allowing better grid management and reducing operational costs.Deployed an interactive dashboard using Dash and Plotly, enabling real-time visualization and comparison of predictions from Transformer and LSTM models, facilitating user-friendly analysis of forecast metrics, and allowing for the download of prediction data, supporting informed decision-making in solar energy management and grid operations.	

EDUCATION

Phd Candidate In Applied Mathematics Statistics and Deep Learning (Incomplete) <i>Mohammed V University</i>	Jan 2017 - Sep 2021
Master's Degree in Mathematics and Applications, Statistics, and Scientific Calculations <i>Mohammed V University</i>	Sep 2015 - Sep 2017
Awarded the Highest score in the Master class.	

CERTIFICATIONS

IBM Data Science Specialization <i>Credential ID: W85E3XU7YR5X</i>	Feb 2025
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PUBLICATIONS

Artificial Neural Networks for Forecasting The 24 Hours Ahead of Global Solar Irradiance <i>Published in AIP Conference Proceedings (2018) - DOI: 10.1063/1.5084983</i>	Sept Jun 2018 - Dec 2018
Artificial Neural Network for Forecasting One Day Ahead of Global Solar Irradiance <i>Published in Smart Application and Data Analysis for Smart Cities (SADASC'18)- DOI: 10.2139/ssrn.3179472</i>	Sept 2017 - Jun 2018