YOSRI BEN HALIMA

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### **Skills**

- Python (Pandas, NumPy, SciPy, MatPlotLib, Keras...)
- SQL (MySQL, SQLite)
- Machine Learning
- Data Analysis

- Data Visualization
- Mathematical Modeling
- Communication
- Storytelling

# **Work Experience**

# INTERN RESEARCH ASSISTANT - Brock University - St. Catharines, ON, CA

February 2024 – June 2024

- Developed the first quantitative framework to measure "Greenhushing" in S&P 500 sustainability disclosures using Natural
  Language Processing, providing groundbreaking insights into corporate transparency.
- Extracted key themes from sustainability reports through topic modeling, uncovering industry-wide trends.
- Optimized data-fetching, reducing processing time from 8 minutes per file to 6.5 minutes for all files combined.
- Linked "Greenhushing" to excess CEO compensation, revealing a positive correlation in the econometric analysis.

### INTERN QUANTITATIVE ANALYST - Laevitas - Tunis, Tunisia

July 2023 - August 2023

- Developed and implemented a funding rate model for perpetual swaps using the Ornstein-Uhlenbeck process.
- Applied Merton's Jump-Diffusion process to model Bitcoin index prices, effectively accounting for market jumpiness and volatility.
- Designed and backtested a pipeline to estimate the liquidation time of contracts using Monte Carlo simulations.

### **Education**

POLYTECHNIC ENGINEERING DEGREE - Tunisia Polytechnic School (EPT) - Tunis, Tunisia

June 2024

Multidisciplinary engineering studies with a focus on Applied Mathematics, Data Science, Finance and more.

**PRE-ENGINEERING STUDIES** – Sfax Preparatory Engineering Institute (IPEIS) – Sfax, Tunisia Preparatory cycle for engineering studies with a major track in Mathematics and Physics.

June 2021

# **Projects**

## MENA-MPFUS PLASMA PHYSICS AND FUSION SCHOOL - Participant - Hammamet, Tunisia

June 2023

- Utilized **Data Science approach** to identify the minimum electrical tension required to initiate plasma in a tokamak.
- Presented findings to experts and peers on the final day of the event and contributed to the scientific discussion.

# ACCELERATING SUPPLY CHAIN USING ACO — Academic Project — Tunis, Tunisia

April 2023 – May 2023

- Accelerated supply chain operations using the Ant Colony Optimization (ACO) algorithm cutting down time by 60%.
- Ensured cost-effective demand fulfillment across 50 retail points, reducing transportation costs by 80%.

# **Leadership Experience**

AIESEC IN TUNISIA - CARTHAGE - iGTe Department Team Member - Tunis, Tunisia

February 2022 – February 2023

Collaborated in a team to facilitate internships, coordinating between international talents and local business owners.

EPT SANDBOX 1.0 - Team Leader and Project Pitcher - Tunis, Tunisia

March 2022 - May 2022

- Led a team to develop FlowRide, a startup idea focused on creating autopiloted Segways for visually impaired individuals.
- Pitched the startup idea in a high-stakes 3-minute presentation, securing selection for incubation by WikiStartup.

# **Language Skills**

ARABIC: Native Speaker FRENCH: DELF B2 Score: 98/100 ENGLISH: TOEIC Score: 970/990