AHMED BEN DALY HASSEN

STORYTELLER | DATA SCIENTIST | COMPUTER ENGINEER

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EDUCATION

University of Michigan - Dearborn, Dearborn, MI   Expected Graduation: Dec 2023
Master's in data science with Specialization in Big Data GPA: 3.4

Mediterranean Institute of Technology, Tunis, Tunisia *(ABET Accredited)*   Sep 2015 – Dec 2020
Engineering Diploma in Computer Systems GPA: 3.11

PERSONAL PROJECTS

Personal Branding Website: Svelte Framework Implementation
Web development, Svelte
- Developed a personal website with a user-friendly interface in Svelte, featuring my projects, skills, and personality through effective storytelling and visual design.

Study case: The effect of profanity in Hip hop in a conservative country (Tunisia)
Data Collection, Statistics & Data Analysis
- Conducted a data-driven analysis of rapper Klay BBJ's music, studying the evolution of profanity in his songs over time and assessing its correlation with various attributes.

The Transformation of the NBA All-Star Game*
Database management, Data Analysis, Data Visualization, Web development
- Analyzed various factors, including player performance metrics and the rise of the three points in the All-Star Game, considering player injury risks. I then created a Svelte article with data visualization to illustrate these insights.

Available on my website

Key Class Projects

Unsupervised Topic Modeling Evaluation
Natural Language Processing, Data visualization
- Created an unsupervised machine learning algorithm utilizing LDA and Gibbs sampling for topic modeling, processed data with NLTK, employed Dash/Plotly for visualization, and integrated multithreading in C++, Variational Inference, Monte Carlo Markov Chain, and ChibStyle Estimators for accurate topic prediction in new documents.

Building a Recommender System for Netflix using Collaborative Filtering and PySpark
Big Data, Data Analysis, Machine Learning
- Conducted a descriptive analysis to uncover insights for a recommendation engine, then designed and developed a Netflix recommendation system using collaborative filtering techniques, with efficient big data processing in PySpark.

PROFESSIONAL EXPERIENCE

University of Michigan-Dearborn, Dearborn, MI   Feb 2022 – Present
Computer Consultant II
- Provide top-tier customer service, resolving software and hardware issues for seamless operations at UM-Dearborn.

OLISSEY, Tunis, Tunisia   May 2021 – Present
Creative Designer
- Designed compelling presentations, curated engaging social media content, and created marketing materials collaboratively.

Institute of Systems and Robotics (ISR), Coimbra, Portugal   Apr 2020 – Oct 2020
Undergraduate Research Assistant
- led feature selection for Non-Intrusive Load Monitoring (NILM), analyzed public datasets for research insights, and used SVM and KNN classification methods to achieve accurate appliance classification in NILM.

SKILLS & OTHER

Hard Skills:
- **Programming:** Python, R, TensorFlow, Spark, JavaFX, C++, C, Linux, SQL (MySQL, Oracle, PostgreSQL), Java
- **Data Visualization:** Observable, Tableau, Power Bi, D3

- **Web Development:** Svelte, JavaScript, HTML, CSS
- **Software:** MATLAB, Adobe Suite (Photoshop, Illustrator, Premiere Pro), Tableau Desktop, Microsoft Power BI, Microsoft Office
- **Other:** ROS, SCRUM

Languages:
- **English:** Fluent

- **Arabic:** Native Tongue
- **French:** Advanced

VOLUNTEERING

FIFA World Cup 2022 - Qatar   Nov 2022 – Dec 2022
Spectator Services Volunteer
- I assisted stadium spectators with wayfinding, queue management, and support for a safe and enjoyable experience.