JOHAN BARREIRO

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PROFESSIONAL SUMMARY

Data Scientist with a strong record in developing algorithms, modeling techniques, and data analysis for complex data sets. Expertise in machine learning and statistics. Proficient in Python and distributed computing for "Big Data" environments. Excellent communication skills and a self-starter attitude, thriving in dynamic work settings.

TECHNICAL SKILLS

AWS | BitBucket | Docker | LLMs | Pandas | Plotly Dash | Python | Sci-Kit Learn | SQL | Spark | Tableau | TensorFlow

EDUCATION

IE SCHOOL OF SCIENCE AND TECHNOLOGY MADRID, SPAIN
Master of Science in Business Analytics and Big Data – Advanced AI Concentration SEPT. 2023 – JULY 2024
- *Foundations of Sustainability Certificate – with Honors*
- *Courses: Forecasting, Machine Learning, Deep Learning, Modern Data Architecture, MLOps*

UNIVERSITY OF MINNESOTA – TWIN CITIES MINNEAPOLIS, USA
Bachelor of Arts, double major in Statistics and Strategic Communication SEPT. 2016 – DEC. 2020

RELEVANT EXPERIENCE

AYESA (CONSULTING) MADRID, SPAIN
Data Science Intern APRIL 2024 – JULY 2024
- Modify proprietary dashboards and deploy changes to **AWS** to track KPIs of new services offered in ERCOT power grid.
- Create simulations to track financial outcomes of various market scenarios using **Cassandra** and **Docker.**
- Ensure machine learning and forecasting models for optimized charge and discharge schedules operate as expected.

UNIVERSITY OF MINNESOTA – OFFICE OF UNDERGRADUATE EDUCATION (HIGHER EDUCATION) MINNEAPOLIS, USA
Data Analyst JAN. 2021 – AUG. 2023
- **Developed metric reporting dashboards** enabling data driven decisions across departments resulting in 1000+ views.
- Conducted ad hoc analyses of complex data of 30,000+ students to promote academic success initiatives.
- Wrote **complex SQL queries** to create comprehensive datasets for analysis and visualization within **Tableau.**
- **Persuaded** stakeholders to use data-driven dashboards at the university's student success conference in February 2023.
- **Identified** areas of improvement in academic programs and **presented** findings to executives across departments.
- **Trained 6 student employees** to ensure projects are completed and met rigorous expectations.
- **Clarified business needs** for multiple analysis projects and adapted workflow to better align with stakeholders.
- Performed review of program offerings to ensure feasibility of timely completion and adherence to university policies.

SLEEP NUMBER CORPORATION (RETAIL) MINNEAPOLIS, USA
IT Intern JUN. 2019 – AUG. 2019
- Identified an opportunity to improve processes at the organization and created physical and software prototypes.
- Designed and performed tests to verify the statistical validity of improved process.
- Prepared and proposed improvements with visualizations to a group of executives with an **ROI of ~$20,000.**

MAJOR PROJECTS

ELECTRITECT (STARTUP) MADRID, SPAIN
- Co-founded AI-driven Energy Consulting startup through IE's Venture Lab and **developed the company's data pipeline.**
- **Decreased overall energy cost by 21%** by implementing data pipeline and energy consumption optimization models.
- Developed scalable workflows for replicating results for clients with differing business operations.

LANGUAGES

English (Native); **Spanish** (Fluent)

OTHER INFORMATION

IE MASTERS IN BUSINESS ANALYTICS AND BIG DATA COMMUNITY REPRESENTATIVE JAN. 2024 – JULY 2024
- Organize engaging extracurricular events for students within the program to foster a vibrant and inclusive community.