Iñigo de la Maza

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Passionate data scientist, highly skilled in machine learning, data visualization and creative thinking. Proven ability to explain and present mathematical concepts and results to technical and non-technical audiences. Looking to leverage my multidisciplinary background to help solve challenging data-centered problems.

EDUCATION

Massachusetts Institute of Technology (MIT)

Feb. 2019 - Present

Visiting student

Cambridge, MA

- · Master's Thesis at IMES: "Tailoring Systems Pharmacology through Computational Models"
- · MIT 15.095 Machine Learning Under a Modern Optimization Lens (Prof. Dimitris Bertsimas)
 - Convex, robust, and mixed integer optimization in machine learning
- · MIT 2.98 Sports Technology: Engineering & Innovation
 - Team leader in data science project for an international sport industry organization in team of seven
- · MIT 6.S191 Introduction to Deep Learning
 - Learned how to build, train and evaluate different Deep Learning architectures (CNN, GAN, LSTM)

EAE Business School

Sept. 2018 - Apr. 2020

Candidate for Online MBA

Barcelona, Spain

- · Master's Thesis on the economics of data, and its influence on corporate success and value creation
- · Relevant coursework: Operations Logistics, Control Management, Managerial Skills, Cost Management

Technical University of Catalonia (UPC)

Sept. 2017 - May 2020

Candidate for MS in Industrial Engineering; minor in Biomedical Engineering

Barcelona, Spain

- \cdot GPA: 3.60/4 | 3 courses with honors
- · Relevant coursework: Industrial Scheduling, Transport Networks, Business Management, Modelling and Simulation of Biomedical Systems, Technological Innovation, Process Control

Technical University of Darmstadt

Mar. 2017 - Aug. 2017

Visiting Student

Darmstadt, Germany

· Bachelor's Thesis at PTW: "Potential analysis and pre-design of an additive manufactured floating bearing bushing for motor spindle drives"

Public University of Navarre (UPNA)

Sept. 2013 - Aug. 2017

BS in Industrial Engineering; minor in Mechanical Engineering

Pamplona, Spain

- \cdot GPA: 3.45/4 | Rank: 8/122 (top 6.5%) | 4 courses with honors

PROFESSIONAL EXPERIENCE

MIT Clinical Research Center

Feb. 2019 - Present

 $Research\ Affiliate$

Cambridge, MA

- · Applied mathematical modeling, computational statistics and ML in cardiovascular-related biomedical projects
- · Developed a mathematical model of blood coagulation under flow conditions

Research Center for Biomedical Engineering (CREB) @ UPC

Feb. 2018 - Feb. 2019

Research Scientist

Barcelona, Spain

- · Led biomechanics research project with industry partners (NISSAN, Meleghy Automotive) about the use of industrial exoskeletons in car manufacturing assembly lines (press coverage: 1,2,3)
- \cdot Directly influenced a change in state regulatory policies by proving that the use of exoskeletons in the automotive sector can reduce the muscular effort of workers by up to 60%
- · Held roles in project management, budget negotiation, data pipeline implementation and data analysis

RELEVANT PROJECTS/COURSES

Data Science projects

2019 Data Science Bowl | Kaggle

- · Prediction of children performance in educational game apps
- · Used Optimal Classification Trees (OCT) and mixed integer optimization
- · Designed feature engineering pipeline and optimization models

Automatic event detection in football

- · Led team of seven in the development of a ML-based model for automatic event detection and classification in football using real-time tracking data
- · Adopted agile development methodology with weekly meetings with the client (international sports association), and deployed a final ready-to-use software

Certifications (MOOCs)

Data Science Professional Certificate | IBM (9 courses)

· Databases and SQL, Python for data analysis, data visualization, and AI

Machine Learning | Stanford University

 \cdot Neural Networks, dimensionality reduction, anomaly detection, recommender syst.

Business and Financial Modeling Specialization | Wharton, UPenn (5 courses)

· Quantitative modeling, modeling risk and realities, model-based decision making

ML & Reinforcement Learning in Finance | NYU Tandon (4 courses)

· Algorithmic trading, Markov Decision Process models, Cryptocurrencies

Data Analytics in Finance | U. of Illinois at Urbana-Champaign

Competitions

2019 Harvard/MIT Business Case Competition

- · Created a strategic business plan for a real client (bioprinting firm)
- \cdot Held roles in market data analysis, projected market sizing, and business model definition

LEADERSHIP EXPERIENCE

NGO Kutembea Na Tanzania

International Volunteer

Aug. 2018 - Sept. 2018 Arusha, Tanzania

- · Led an intercultural team of five to build a school for local children
- · Designed a renewable energy-based electrical system for the school

SKILLS

Programming Python (Proficient), MatLab (Proficient), Julia (Advanced), R (Advanced),

HTML (Advanced)

Machine learning TensorFlow, Keras, PyTorch, Sci-Kit, Google Cloud ML Engine

Big data Apache Spark, Google Cloud Suite

Databases SQL, MySQL

Optimization Mixed Integer Programming, Convex Optimization, Linear Programming

Data visualization Tableau, Plotly, D3.js

Version control Git

Academic writing LaTeX

Languages Spanish (Native), English (Fluent), German (Advanced), French (Medium)