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
MBA *Barcelona, Spain*

- GPA: 9.1/10 | Master's Thesis on the influence of data 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
MS in Industrial Engineering; minor in Biomedical Engineering *Barcelona, Spain*

- GPA: 9/10 | 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*

- GPA: 8.1/10 | Rank: 8/122 (top 6.5%) | 4 courses with honors
- Relevant coursework: Statistics, Control Theory, Numerical Methods, Advanced Physics, Calculus

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)
- 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
· 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)
· Held roles in market data analysis, projected market sizing, and business model definition

LEADERSHIP EXPERIENCE

NGO Kutembea Na Tanzania — Aug. 2018 - Sept. 2018
International Volunteer — *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** (Intermediate), **JavaScript** (Intermediate)
Machine learning	TensorFlow, Keras, PyTorch, Sci-Kit, Google Cloud ML Engine
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)