Esteban Navarro Garaiz

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Experience

Zelus Analytics – *Product Scientist*   **2022 – Present.** Mexico City, MX

- Identify, recommend and prioritize improvements to existing platform and models
- Develop internal capabilities for analyzing, visualizing, and reporting model results

Los Angeles Dodgers – *Quantitative Analyst*   **2020 – 2021.** Los Angeles, CA
- Created probability models to describe catcher defense (additional strikes, blocking, stolen base attempts)
    - Used these to create descriptive metrics (framing, blocking and arm) and a projection system on top
- Lead QA's collaboration with Pro Scouting to prioritize scouting time and improve player acquisition efforts
- Collaborated closely with Player Development to improve analytic tools used in MiLB development
- Built a stability / changepoint detection framework for detecting talent changes with confidence intervals

MongoDB – *Data Science Intern*   **2019.** New York, NY

- Developed quantitative segmentations to understand Cloud customers with product usage and organizational characteristics. Key insights are being used by Product and Growth to guide new offerings throughout customer funnel and Marketing to personalize customer interaction, and boost customer retention

Education

New York University – Center for Data Science   New York, NY

Master of Science in Data Science – GPA 3.88   *2018 - 2020*

- Recipient of a CDS DeepMind Fellowship and a Fulbright-García Robles Scholarship.
- Course highlights: Machine Learning, Big Data, Deep Learning, Natural Language Processing, Data Engineering for Machine Learning, Optimization and Computational Linear Algebra, Forecasting Time Series Data

Universidad Nacional Autónoma de México (UNAM)   **Mexico City**

Bachelor of Science in Mathematics - 9.03 GPA   *2012 - 2018*

- Worked as Assistant Professor for Probability I, Stochastic Processes 1 and Select Topics in Operations Research
- Course highlights: Probability (2), Statistics (4), Stochastic Processes (2), Linear Algebra (2), Operations Research (2), Graph/Game Theory (3), Calculus (4)
- For my graduation thesis, I created a soccer prediction model, based on the Poisson Distribution, and applied it successfully to the betting market using the Kelly Criterion https://tinyurl.com/wtpssjt

Projects

- **NBA Shot prediction (Brooklyn Nets Capstone Project):** Using high-dimensional tracking data and a two-tier ensemble model, we are able to predict shot outcomes —makes, misses or shooting fouls. Our model is used for player evaluation and is more stable than outcomes from season to season. https://bit.ly/2wZjZtn

Skills

- **Python:** Data Science Packages (Pandas, scikit-learn, Matplotlib, NumPy, ScyPy, Pytorch, Tensorflow)
- **Machine Learning:** Neural Networks, NLP, Random Forests, Regression, kNN, Naïve Bayes, Boosting, PCA/SVD
- **SQL:** Industry level. Have worked with sqlite3, PostgreSQL / psycopg2, MongoDB query language (M001)
- **Cloud technology / automation**: AWS suite (S3, EC2, ECR, K8S), Docker, CI/CD, MongoDB Atlas
- **Other Programming:** Git, Docker, R — Tidyverse (stats, dplyr, ggplot2, tidyr), Unix Shell, Hadoop, Spark
- **Other:** LaTeX, Spanish (native speaker, have worked as English-Spanish translator), data visualization