

Francisco Donoso

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PROFESSIONAL EXPERIENCE & PROJECTS

Change Architect

Bimbo Bakeries USA

Multiple Locations

Aug 2022 – Present

- Developed Python-based automation tools (e.g., NLP parsing of ops reports), saving 50+ hours monthly in data mining, reporting, and KPI tracking.
- Tracked performance data and created, maintained and distributed PowerBI reports and dashboards across multiple departments to track KPIs
- Saved 20+ supervisor hours monthly by leveraging VBA to automate shift reporting
- Modeled key variable impacts on product dimensions using machine learning, optimizing production processes
- Coached plant leadership and associates on new processes, technologies, and best practices
- Modeled production variables with ML techniques, optimizing product dimensions across multiple sites
- Developed data models to analyze cost fluctuations in raw materials and production efficient to assist in risk assessment and asset pricing

Distributed Machine Learning Researcher

Texas A&M University, Networked Multiagent Systems Laboratory

College Station, TX

Oct 2019 – Aug 2022

- Managed, cleaned, and transformed sets of raw sensor data containing 1M+ observations collected from users of a motion tracking device to build activity prediction models
- Designed and built KNN, Tree, and SVM based prediction models that achieved over 71% activity prediction accuracy
- Performed multiple types of cross validation to verify models and perform parameter tuning
- Maintained web repository current with data sets, reports, and code files to facilitate sharing findings and peer review

Master Thesis

Epidemic Modeling and Prediction using Mobility and Demographic Data

College Station, TX

Oct 2020 – Aug 2022

- Gathered and prepared infection data from multiple sources and used it to estimate the effective reproductive number for Covid 19 to use a metric for current pandemic
- Created big data sets used for model building by matching each states' mobility data to calculated reproductive numbers
- Developed predictive machine learning models, achieving 75%+ accuracy, ranging from simple linear models to complex neural networks used for analysis of current state and prediction of future state of the pandemic

Lean Engineering Project

VTI of Texas, Inc.

College Station, TX

Aug 2019 – Sep 2019

- Developed new inventory storage system that increased productivity, avoided conflicts, and reduced overall lead time
- Redesigned machine layout to minimize operator crossing paths, maximize available space and reduce travel time
- Created employee training program which reduced training time for new employees by 30%

LEADERSHIP

- Institute of Industrial and Systems Engineers 2018 – Present
- Alpha Pi Mu – Industrial Engineering Honor Society 2018 – Present
- Tau Beta Pi – National Engineering Honor Society 2020 – Present

EDUCATION

Texas A&M University, Dwight Look College of Engineering

*Master of Science in Industrial and Systems Engineering
Data Science Specialization*

College Station, TX

Jan 2021 – Aug 2022

Texas A&M University, Dwight Look College of Engineering

*Bachelor of Science in Industrial and Systems Engineering
Minor in Computer Science*

College Station, TX

Aug 2017 – Dec 2020

CERTIFICATIONS

- [Azure AI Fundamentals AI-900](#) (Microsoft)
- [Python 3 Programming Specialization](#)
- Six-Sigma Green Belt (IISE)
- [Database Design & Basic PostgreSQL](#) (U. of Michigan)
- Lean Six-Sigma Green Belt (IISE)

SKILLS

- Native in Spanish & English
- Microsoft Azure
- Python, VBA, R, Java, C/C++, Git/GitHub
- Apache Spark (PySpark, SparkR)
- PostgreSQL, Tableau, PowerBI