

Alfredo André Durán Treviño

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About

Undergraduate Data Scientist with a focus on analysis and finance. Passionate about data science, machine learning, and quantitative methods to drive impactful solutions. Adaptable, committed to continuous learning, with an interest in economic processes and socioeconomic analysis. Contributing to projects that create a meaningful impact in the community.

Education

Tecnológico de Monterrey, Monterrey Campus, Data science

- Average grade: 92.9/100
- Academic distinctions: 60% Academic Scholarship, “Leader with a Human Sense” Social Service Recognition
- Elective Course: Micro incentivos económicos y macro resultados, final grade: 97

Projects

Income classification with INEGI - Data science Analysis

- Cleaned and analyzed a socioeconomic dataset provided by INEGI to develop an income classification model, explored key economic indicators that affect income. Implemented Decision Trees and Random Forest in Python to predict income ranges.
- Tools used: Python, Excel

Invoice Automation App – Hackathon 2024 with Capital One

- Used a Capital One-provided API to create a dataset of user bank balances. Applied analysis and predictive modeling for account balances and designed a method to automate the invoice process
- Tools used: Python

Cost of medical insurance and medical characteristics - Modeling Learning with Artificial Intelligence

- Focus on unsupervised learning to analyze the relationship between socioeconomic factors and medical insurance costs. Implemented data cleaning, clustering and advanced analysis in Python.
- Tools used: Python, Kaggle, Excel

Analyzing impact of non-anthropogenic factors in contamination with SIMA - Application of Multivariate Methods in Data Science

- Used a data base on Monterrey contamination and analyzed the factors that influenced ozone. Data transformation techniques used to achieve normality for prediction models, including multivariate linear regression and neural networks.
- Tools used: Python, R, Excel

Skills

- **Languages:** Spanish – Native Speaker, English – Advanced, Chinese – Basic level
- **Programing languages:** Python , R , C++ , SQL
- **Technical skills:** GAMS , Tableau , Excel , Python (scikit-learn, numpy, matplotlib), machine learning, neuronal networks.

Cursos

- **Matemáticas financieras** – UNAM - (Coursera) - 2025
Topics: Business Analysis, Finance, Investment Management, Calculus, and Data Analysis.
- **Principles of Economics: Introduction** – RICE (Coursera) - In Progress
Topics: Market Dynamics, Supply and Demand, Cost-Benefit Analysis, Market Analysis, and Decision Making.