


Gustavo Adolfo Fernández Otero

Data Scientist

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PROFILE

I am currently enthusiastic about emerging technologies used to analyze large volumes of information, so I have decided to direct my horizon towards data science, taking advantage of my mathematical skills, especially in statistics and understanding algorithms.

My original profession is industrial engineering. I have been in constant change. I have participated in the survey and documentation of processes associated with the area of loss prevention and control in the oil industry, manufacturing and distribution, retail and pharmaceutical companies. My skills to solve problems, optimize resources, and manage work teams have led me to reach Management positions.

Connect with me and let's see how to work to achieve new organizational goals.

SKILLS

Python

Python Libraries (Numpy, Pandas, Matplotlib, Sciky-Learn)

Machine Learning

Exploratory data analysis (EDA)

Webscraping and API Connections

PROJECTS

Development of a Machine Learning Model to Predict Accident Severity in the United States.

This predictive model can enable emergency services to prioritise and allocate resources more efficiently. Authorities can make informed decisions to divert traffic and avoid additional congestion. This is crucial to minimise the impact on the road network and reduce the risk of secondary accidents. The model was built in Python using libraries such as Matplotlib and Seaborn for visualisation, Scikit Learn, TensorFlow and Keras for training the model and finally, the deployment was done through Streamlit and Render.

Reduction of Shrinkage in Excelsior Gama Supermarket Network.

Spearheaded the reduction of inventory fluctuation losses from 3.0% to 1.5%, significantly improving company assets. This goal was achieved by the identification of the categories that presented the greatest reduction factor; the analysis of the data aimed at increasing the cyclical counts of the merchandise, together with the technical review of the physical protection systems and the training of collaborators to deal with external and internal theft.

Minimize customer complaints for order failures in Corporación Drolanca.

Managed a project that integrated CCTV and SAP systems to track orders throughout the value chain, from creation to dispatch. The implemented technology allowed for real-time tracking of orders, significantly improving the efficiency of the dispatch process.

Reduction of Thefts in Coca Cola Femsa's Dispatch Routes in Western Venezuela.

Implemented satellite tracking technology and developed communication protocols with state security forces, improving real-time response to theft incidents. Use data from SAP to determine the areas of greatest risk for the operation, supported by a new design of the safe deposit boxes used for cash collection.

EDUCATION

Master's Degree in Management Engineering., Universidad Metropolitana

June 2024
Caracas, Venezuela

Bachelor's Degree in Industrial Engineering, Universidad del Zulia.

January 1996
Zulia, Venezuela

CERTIFICATES

- Data Science Certificate. 4GeeksAcademy.
- Tools for Data Science. Coursera. [↗](#)
- Data Cleaning, Data Visualization, Pandas. Kaggle.
- Python for Data Science and AI. IBM. [↗](#)
- Python Project for Data Science. Coursera. [↗](#)
- Medium Computer Technician. Matema.

PROFESSIONAL EXPERIENCE

Excelsior Gama Supermercados, Loss Prevention and Control Manager

2012 – 2021
Caracas, Venezuela

- Successfully implemented an Alert and Response Room, integrating branch monitoring operations for enhanced security. A 5-year investment and expenditure program was designed to carry out this activity, which guarantees the monitoring of the entire operation 24 hours a day, 365 days a year, responding in a timely manner to emergencies that occur in the business.
- Development of training programs aimed at PCP's own staff and surveillance services. This goal translated into empowering people in their jobs and responding in a more correct and timely manner to events and emergencies specific to the loss prevention and control function.
- Design of the current organizational structure of the company in the area of loss prevention and control, an activity based on the implementation of the figure of PCP Assistants and Checkers in the loading areas of the Branches and Distribution Center, managing to systematically address the losses generated in the processes associated with the value chain.

Corporación Drolanca, Loss Prevention and Control Manager

2010 – 2012
El Vigia, Venezuela

- Implementation of Access Control Project in Main Office and Branches in the interior of the country, obtaining a trace of the activities inherent to access control and supporting the investigation process in the resolution of administrative cases.
- Creation of an assistance network made up of the state security forces to promote the execution of protection protocols.

Coca Cola Femsa de Venezuela, Property Protection Manager

2007 – 2009
Caracas, Venezuela

- Design of the company's current organizational structure in the area of loss prevention and control, which resulted in a greater presence of security personnel in the operation, generating the deterrent effect typical of the PCP function.
- Design of the physical protection infrastructure, which contributed to the reduction of unauthorized incursions into the Branches. International physical protection standards were revised to adapt them in the different environments where the facilities were located.

LANGUAGES

Español
Native

English
Proficient

INTERESTS

Finance, Stock Markets, Blockchain, Cryptoassets, Advances in AI, Writing Articles, Statistics.