KAREN BACA MENDOZA

Data Scientist

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PROFESSIONAL EXPERIENCE

Data Analyst - Engineering Data Hub

Volvo Cars

📅 August 2023 - Current   📍 Göteborg, Sweden

Management and support for remote vehicle data collection instructions in vehicle fleet. Among my responsibilities is included communication with stakeholders within the company, monitoring, and troubleshooting of the data collection using complex queries and visualization tools.

Data Science - Global Graduate

Volvo Cars

📅 August 2021 - August 2023   📍 Göteborg, Sweden

24-months career boosting program designed to develop our potential as future leaders. During this time I got the opportunity to work on the next assignments:

- **Data Scientist - APAC Data and Analytics**
  Clustering and classification of false fault tracing (DTCs) from vehicles in the production line.

- **Data Analyst - CX Consumer Insights and Analytics**
  - Correlation analysis between consumer overall satisfaction metric and number of retailer's car deliveries (throughput) in UK.
  - Design of a new survey program for measuring consumer-facing employee satisfaction via Medallia.

- **Data Scientist - System Level X at Open Innovation Arena**
  As part of the AI Aware Scale Up project, I collaborated with the design of a graph data model for the analysis of traffic accidents in Neo4j. Data sources included weather, friction, road infrastructure and historical accidents. Results were presented in events such as Volvo Cars Graph Day 2023 and Neo4j Graph Summit Stockholm 2023.

- **Data Scientist - Advanced Analytics and AI at Digital**
  Exploration and implementation of an evaluation metric for car sales forecast. Predictions are evaluated using a hierarchical approach based on different car variant levels such as model, trim and model year.

Data Science Research Engineer

Chalmers University of Technology

📅 July 2019 - June 2021   📍 Göteborg, Sweden

Group founded by Chalmers AI Research Center (CHAIR) for supporting data-related academic projects. Some of them were:

- Survival analysis to investigate causally related factors (e.g. gender and age) of academia turnover. This project was founded by the Gender Initiative for Excellence (Genie).

- Analysis and classification of electrical brain activity to study Phantom Limb Pain using time series and image based feature extraction methods.

- Analysis of COVID-19 patients data for forecasting hospitalization. This project was a collaboration with Sahlgrenska University Hospital.

PROFILE

I am a passionate data scientist with a mathematical and statistical background and experienced at creating data-driven models, statistical analysis and data visualization.
During the last four years I have been involved in multiple data related projects, gaining valuable experience on creating and communicating insights for different audiences such as academia and automotive industry.

SKILLS

Data Communication   Problem Solving
Data Visualization   Statistical Analysis
Machine Learning   Clustering
Predictive Modelling   Data Mining
Survival Analysis

EDUCATION

MSc. Engineering Mathematics

Chalmers University of Technology

📅 Göteborg, Sweden   📍 Aug 2017-Jun 2019

BSc. Engineering Physics

Monterrey Institute of Technology and Higher Education

📅 Monterrey, Mexico   📍 Aug 2012-May 2017

PROGRAMMING LANGUAGES

Python   R   Matlab   SQL

LANGUAGES

English   ●●●●●

Spanish   ●●●●●

Swedish   ●●●○○