Benazir Munoz

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Location: Mexico

Profesional Summary

"I am excited about working with engineering projects, listen to different ideas, to use my creativity and come up with good result based on teamwork."

Skills

- Python, Pyspark,Scala, C#,R, Javascript, Java (Proficency Order)
- Ubuntu/Linux Bash, SSH
- Entrepreneurship Courses
- Big Data (map and reduce)
- AWS
- Snowflake (Certification)
- Dataiku (Certification)
- SAS (Certification)
- Hadoop, Hive
- Spark
- Troubleshooting
- Tableau, D3, Matplotlib
- Kafka(Basic),GraphX
- Time Series ARMA models
- NoSQL Arquitectures
- Agile and CRISP
- SQL
- GitHub
- Advance Excel
- Machine Learning
- GRAccess C# Wonder Ware API
- Automation - Control Dev. Manufacturing - SCADA Technology - PLC's
- Arduino, RaspberryPi
- Technology Integration
- Customer Care
- Languages: Spanish Native, English C1 German B2, French A1

Education

- Bachelor of Science in Mechatronics Engineering at Universidad Autonoma de Nuevo Leon.
- Master of Science in Computer Science Data Science at TU Delft

Work History

Raken Data Group. Data Scientist:
September 2019 - Current. Monterrey, Mexico. Fraud detection (general anomaly detection),recommender systems, warehouse production predictions, big data analysis, market analysis(offers), applied machine learning. Understanding business vision and data analytics technologies.

Atos Global IT Solutions -Sr. Integration Software Specialist:
January 2016 - July 2017. Monterrey Mexico Development tools to update in automated fashion a big SCADA system. Use of Wonderware API to update information. Text processing with AI.

LEGO Mexico - Automation Engineer:
August 2014 - January 2016. Monterrey Mexico Technical support for manufacturing processes, scheduling instalations for new production lines, development production improvements, AI in manufacturing (general production optimization).

Daltile Mexico - Automation Intern:
December 2013 - August 2014. Monterrey Mexico. General technical support to the manufacturing process (maintained, debbuged and optimized automation programs), understanding different types of communication networks,safety reports.

Fest AG Gmbh - Engineering Intern:
March 2013 - July 2013. Berlin, Germany. Know-How of the consultancy process. Test user interface software and correct errors. General understanding of automation engineering and network connections between engineering devices.

Universidad Autonoma de Nuevo Leon - Laboratory Assistant:
June 2011 - June 2012. Monterrey, Mexico. Support with openning hours and general maintenance.

Sitel Mexico S.A de C.V. - Customer Service Agent:
September 2008 - June 2011 Monterrey, Mexico. Customer service support, retention, technical support, service recommendations and billing statements feedback.

D' Confianza (Jewerly) - Administrative Assistant:
June 2006 - Septiembre 2008. Monterrey, Mexico. General administration, customer service managing product inventory, sales reports and general reparations.

Cyber Cafe - Administrative Assistant:
Monterrey, Mexico. Managing general administration, customer service and update finantial reports.

Scholarships: (CUMEX,DAAD Bachelor)- CONACYT (Master)

#DataScience #ArtificialIntelligence #Mechatronics

Data Science Experience Annexed

Professional Projects

Bank Profile Segmentation Mexico:
- Project to find internal fraud within the companie. I gave support in the customer segmentation process and to help out in the development of pyspark code to write it down to run on a cloudera cluster. We schedule the task with Oozie. Project with CRISP methodology.
#Pyspark #Hadoop #Oozie #Cloudera #ProductionCode

Insurance company Chile:
- Data analytics technology change. Migratio from SAS to Dataiku. Use of snowflake to translate data analytics process to Dataiku. Project with Agile methodology.
#Snowflake #SAS #Dataiku

Light bulb company, Stock Inventory Mexico:
- Contritube to create a model to predict product flow through each month. Project with CRISP methodology.
#Python #Dataiku

Steel company, Recommender System Argentina/Mexico:
- Proof of concept made to the company in order to create a recommender system to regular customers on the Ternium website after they login.
#Python

Convenience store, Reward Program Mexico:
- Demonstrate the companie leaders how they can create a reward program based on the product selling which might benefit the company the most by attracting new customers and getting the most out of the product waste. They are pretending to sell products based on points earned with purchases by the customer.

Data Science Experience Annexed

Recommender Systems University:

- Movie Recommender System: We developed a movie recommender system with movie posters. We use OpenCV to decompose the images into their color properties (RGB), with the substracted data and a distance metric build a similarity matrix. Afterwards, retrieve the image that is closer to the properties of the desire movie.
- Rock Music Mixer System: We download a dataset with peaces of classic rock songs. We processed the audio recordings with Librosa to extract audio properties. My mainly task was to process the dataset to identify novelty points in order to find out which was the best time to introduce the new song.

#Python #Librosa #OpenCV #ImageProcessing #MusicProcessing

Big Data University:

- Text processing. Use text to extract information out of it using map and reduce operations such as word count. Additionally, we gathered tweets and identify Hashtags to group tweets with the same topic.
- Profile Big Data System to understand the cost of hardware selection.
- Actors Network Analysis. We analyse how the friendships from a specific actor work, depending on the film where they interact with each other.
- Bitcoin Network Analysis. Download Bitcoin Data (10GB), out of the previous mentioned data a flowing money network was build. Thus, it was possible to infeer properties from different accounts such as how many accounts are related to a given account, income money, outcome money, total balance in a period of time, historical total balance.

#Scala #Spark #MapAndReduce #PySpark #Java #AWS #Amazon #S3Bucket #Boto2

Artificial Intelligence University:

- Artificial Intelligence Negotiation Agent. Worked with an artificial intelligence framework to negotiate user preferences.
- Nao Robot and Web Crawler Application. We build an application with a NAO robot and a web crawler to read the news papers to elderly people. The main ideas was the filter of the news by sentiment. .(Good, Bad or Neutral)

#Java #NAO #Python #Beautifulsoup #WebCrawler

Data Visualization University:

- New York Tourist Information. Analyse New York city business area to identify daily activities that a tourist could enjoy. It was possible to see the distribution of business sectors around the city.
- Medical Volumen Visualization: Reproduce with a Java Framework a 3D Object. It had the possibility to show different layers such as the surface or the skeleton.

#Java #Leaflet #JavaScript #HTML #GeoSpatialData

Information Retrieval University:

- Prototype to predict the Amsterdam Elections. We gathered tweets from Amsterdam. Afterwards, we filtern the information per political opinion (hashtags with political parties names). My main task was to perform a correlation test over the geospatial data and with machine learning algorithms cluster the data using a k-nearest neigbohr and hierarchical clustering techniques.

#Tweeter #Python #MachineLearning #UnsupervisedLearning #GeoSpatialData #CorrelationTest

Data Bases and Data Mining University:

- Cancer Prediction in Gene. Take Dataset with gene information build a network with Igraph (Python), extract properties for each gene and use the ground truth data to traina Machine Learning algorithm (SVM) to predict the cancer.

#Igraph #MachineLearning #Python

Others:

* Artificial Intelligence Conference May 2018 (Berlin). Pitch an idea about what can be done with the Sentinel-Hub data (Satellite Images). The proposed solution was the agriculture resource manager. We analysed demographic data from the European Union to identify, which vegetables and fruits were harvest in each country. Afterwards, we analyse the weather conditions in each country/region of country to link the corresponding data. Then with a Machine Learning algorithm (Decision Tree), we identify the countries which might be suitable to harvest certain fruit or vegetable. The main goal was to improve the food logistics transportation chain.