Luis Castro

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Github | LinkedIn | Twitter

Skills:

Focus: Data Science, Machine Learning, AI
Languages: Python, R
Libraries: keras, sklearn, caret, pandas
Tools: Git, Shiny, Jupyter, Rpubs, Tableau
Bilingual: English / Spanish

Education:

Master in Electrical Engineering
Bachelor in Electronics and Communications
Tec de Monterrey

The Data Incubator Fellow - 2017

Work Experience:

Neuron Tweak – Energy Data Analyst — Dec 2015 – Present
- Created energy processes analysis and savings app
- Deployed 3 solar and energy monitoring projects on local farms
- Applied best energy practices for an average 4% savings in utilities

Schneider Electric – Energy Management Specialist — Jul 2013 – Nov 2015
- Specified 30+ energy efficiency solutions for industry
- Provided solutions for saving around 14M USD in utilities for our clients
- Exceeded twice annual sales quota of 2M USD

Optima Energia – Energy Engineer — Jun 2011 – Jun 2013
- Developed energy analysis and street lighting census apps
- Supervised control and monitoring deployment for 3 street lighting and 2 hotel projects
- Incremented engineering team project design throughput around a 100%

Data Science Projects:

Film Script Analyzer – Data Incubator Capstone Project — (Python, Jupyter, R, Shiny)
- Retrieves raw text to create dataset by web crawling for scripts and using IMDB API
- Creates dataset extracting features with IBM Watson API and NLP
- Uses regression, classification, summarization and recommendation algorithms

Energy Dispatch Simulator – Proof of concept at Neuron Tweak — (R, Shiny)
- Calculates minimum incremental cost for energy dispatch, assuring best production cost
- Computes Lagrange multipliers to calculate optimal generation incremental values
- Employs linear regression to time series data to calculate grid demand

Word Generator & Predictor – Coursera Capstone Project — (R, Shiny)
- Corrects spelling, predicts next word in real time and generates random phrases
- Applies Markov chains, back-off and Levenshtein distance
- Queries dataset comprised of over 500 MB of blogs, Twitter and news data

Hobbies:

Kaggle - Competitions Expert
Udacity - Machine Learning / Self-Driving Car Nanodegrees
Coursera - Data Science / Big Data Specializations