

# GRETTEL E. JUÁREZ

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## Skills

### PROGRAMMING

Python  
SQL  
Linux

### MACHINE LEARNING

Generalized Linear Models  
Classification  
Natural Language Processing

### LIBRARIES

Pands  
Numpy  
Sklearn

### VISUALIZATION

Matplotlib  
Seaborn  
Tableau

### OTHER

BeautifulSoup  
Selenium  
Git  
AWS

### LANGUAGE

Spanish

### DELIVERY

Project Management  
Client Relationship  
Software Delivery Lifecycle

## Education

University of Miami, Coral Gables, FL  
Bachelor of Science Computer Engineering  
May 2008

## Experience

### Metis

Data Scientist

Jan. 2021 to Current

12 week project driven data science bootcamp. Select projects include:

#### Crossfit Subreddit NLP

- Analyzed posts on r/crossfit to gain insights into the group's discourse and understand impacts of the pandemic. Provided business driven findings for crossfit owners
- Performed topic modeling, clustering, and sentiment analysis using IBM Tone Analyzer

#### Hotel Cancellations Classification

- Compared performance metrics of several algorithms to classify whether a hotel reservation will be canceled or not. This can be beneficial to hotel management by informing net demand forecasting
- Achieved 0.89 precision with a random forest model. Other models compared were logistic regression, decision tree, KNN, Naive Bayes, and XGBoost

#### Investigation of Black Student High School Achievement Gap

- Used linear regression and regularization to explore relationships of high school features to the black and white students' graduation rates
- Scraped 25,000 pages containing high school profile information

#### Schitt's Creek NLP

- Analyzed show's dialogue to identify key moments in relationship growth
- Performed topic modeling, clustering, sentiment analysis using Vader, and text generation with fastai

### Accenture

Manager

San Diego

June 2008 to Current

Performance Engineer with over 12 years of consulting experience serving a wide range of clients in large-scale and fast-paced environments. Led many efforts in delivering quality application performance test, monitoring, and diagnostics capabilities. Select experience:

#### Project Management

- Direct involvement in sale of \$3.5M contract awarded after proven quality work through successful delivery of initial expansion pilot
- Managed client technical director level relationships and communicated test results to technical and business teams
- Managed a team of 6 to deliver performance test and diagnostics of 3 front-end user applications and 90+ batch jobs to serve over 3M users across 90 counties
- Experience managing several types of team members including offshore (India and Philippines), sub-contractors, third-party vendors, and client team members
- Experience leveraging expertise across teams including business analysts, development, database, infrastructure, and network

#### Delivery

- Developed 2-year performance test strategy for a phased re-engineered system ramp up to 4M users across 6 applications
- Saved 10 weeks effort by working with technical and business SMEs to identify workaround to meet performance test data dependency needs across 5 applications
- Quickly delivered performance test of major application release within 2 months including ramp up, planning, execution, and results communication
- Implemented repeatable performance test strategy, plan, automation scripts, execution, results/defect tracking, and reporting to align to performance best practices

#### Analysis

- Used pandas and matplotlib to provide initial analysis of 2-year historical batch job performance results
- Created unique analytical approach to estimating performance with major environment limitations
- Designed SQL queries to extract up to 90K performance test data and validate batch job functionality after test execution

Awards: Earned distinctive achievement 3 times as a manager

**Certifications:** Internal technical architect and Dynatrace vendor certifications