

# JACOB GOMEZ RUBIO

## Data Scientist

Los Angeles, CA

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### EXPERIENCE

#### OurTownHall

September 2023 - Current

##### *Machine Learning Engineer*

- Led all machine learning development for two products which leveraged classification and entity recognition. The products aimed to summarize and surface company attributes and information for customers across more than 3,000 community-based organizations (CBOs).
- Developed 2 ingestion pipelines, 2 transformation pipelines, and 1 web scraper which helped create test datasets and leverage publicly available and online company data.
- Segmented classification across two models: a transformer-based named entity recognition (NER) model and a LongFormer model, both with mAP of over 95%

#### Activision Blizzard

June 2020 — Current, Santa Monica, CA

##### *Data Scientist*

- Assisted in developing tools focused on predicting candidate success from a global talent pool for 5 of the company's most in-demand technical roles.
- Increased stakeholder productivity by 30% with use of sentiment and topic classification for conversational insights.
- Worked with 3 internal stakeholders to drive analysis of 2 talent pool categories which aided executive decision making for a large-scale hiring initiative.
- Developed custom transformation pipelines and Random Forest models to enrich outside-in talent pool analyses.
- Conducting benchmarking analyses for a specific job market subset and distilled insights to an actionable talent report which was communicated to executive leadership on a monthly basis.

### PROJECTS

#### FSAE Electric Racecar Development @ UCI

September 2018 — October 2019

##### *Telemetry Sub Team Lead*

- Led a team of 4 student engineers in developing a wireless data transmission system. Also working with 3 mechanical engineers who provided feedback, the system allowed for real-time vehicle performance monitoring and increased productivity across all engineering teams.
- Organized and facilitated team meetings, sprint sessions, and improved relationships between software and mechanical teams, which ultimately helped with successful product deployment and integration.

#### Lane Detection Using Image Segmentation

September 2018 — February 2019

##### *Student*

- Custom transformation pipeline with OpenCV using Gaussian blur filters, Canny edge detection, image masking, image thresholding, and Hough Line Transform techniques on lane lanes.
- Classification applied on fixed-position footage from moving vehicle.

### SKILLS

Python (numpy, pandas, matplotlib, Dask, plotly)

Statistics (causal inference, hypothesis testing, survival analysis)

Machine learning (regression, random forests, forecasting, predictive modeling)

Deep learning (NLP, PyTorch, Tensorflow, scikit-learn, OpenCV, HuggingFace)

Statistics (causal inference, hypothesis testing, survival analysis)

SQL (Google BigQuery, Oracle)

Cloud Computing (Google Cloud Platform, AWS)

Software Development (MATLAB, Java, R, Tableau, SSH, HTML, CSS, Javascript)

### EDUCATION

#### University of California, Irvine

##### *B.S., Mathematics*

2016-2021

Irvine, CA