

Aaron Glover

SR DATA SCIENTIST

1602 Elgin St Apt 14 Houston, TX 77004

☎ 281.221.5071 | ✉ aglove2189@gmail.com | 🌐 aglove2189.github.io | 📞 aglove2189 | 📺 aglove2189 | 🐦 @aglove2189

Full stack data scientist with a proven track record of delivering data products. Solving complex problems with the simplest solution possible is the desired outcome. Solid capabilities in modeling, statistical analysis, and data munging.

Skills

Programming Python, SQL, Scala, R
Packages Pandas, NumPy, scikit-learn, xgboost, Keras, Tensorflow, Kafka, Spark, git
OS & Cloud Linux, Windows, Hadoop, Google Cloud, Azure, AWS
Databases All relational DBs, MongoDB, InfluxDB

Experience

Enterprise Products

Houston, TX

SR DATA SCIENTIST

May 2019 - Current

- Developed a recurrent neural net for predicting heat exchanger failures in the first 8 weeks. First model in production at Enterprise.

Sanchez Energy

Houston, TX

DATA SCIENTIST

Apr 2017 - May 2019

- Developed a model fitting solution for determining a well's spontaneous (SP) log curve using peak detection methods and Kalman filters. The end result is used for identifying potential multi-million dollar fields to target.
- Developed a Markov Chain Monte Carlo solution for simulating a well's decline curve and ultimate recovery. This solution is used to determine how much a well will make over its lifetime before physically drilling it.
- Optimized a geophysics simulator written in Python. Runtime went up by 6X and lines of code reduced by 10X.
- Contributed to the development of a multi model prediction framework for predicting well production. Framework is used to accurately predict a well's production and is used in planning and development of a field.
- Contributed heavily to the development of automated methods for feature engineering, used in a number of projects.
- Built and productionized a LSTM neural net for predicting a well's future flowback amount.
- Developed operational alerts utilizing realtime data. Alerts include a deterministic model for detecting tubing leaks. Annual cost savings is well over six figures.
- Developed a multitude of data pipelines and workflows from a variety of sources (relational, non-relational, SCADA systems, etc).

Occidental Petroleum

Houston, TX

DATA ANALYTICS

Jan 2012 - Mar 2017

- Developed and productionized a Monte Carlo simulation to determine the optimal number of workover rigs a field needs.
- Built a logistic regression model for predicting the likelihood of IT tickets breaching their SLAs; achieved 87% accuracy.
- Implemented the first graph database (using neo4j) at Oxy for visualizing relationships between key data points. Visualization of complex data flows simplified the understanding of how data moves throughout the organization's systems.

Education

Texas A&M | M.S. in Analytics

Houston, TX

MAJOR GPA: 3.8

May 2017

- Thesis: Predicting the likelihood of ESP well failures utilizing survival analysis and gradient boosting.

University of North Texas | B.S. in Information Systems

Denton, TX

MAJOR GPA: 4.0

Dec 2011