**Eric Kim**

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Portfolio – https://aegis4048.github.io

**Education**

**The University of Texas at Austin** – Bachelor of Science | Dec 2019

Petroleum Engineering | Minor in Computer Science

Major GPA: 3.38/4.00 | Cumulative GPA: 3.42/4.00

**Experience**

Jan 2019 – Present **Machine Learning Intern –** *Rig Automation & Performance Improvement in Drilling*

* Constructed NLP model to predict drilling phase from text information
* Explored various algorithms (TF-IDF, word2vec, doc2vec, etc…) to represent text information in a vector space
* Studied the performance of Naïve-Bayes, logistic regression, and neural net for phase prediction

May 2018 – Dec 2018 **Web Development Intern –** *Intellicess*

* Designed a real-time drilling monitoring system that visualizes & updates data on web application
* Developed front-end UI, back-end framework, and DB structures for the drilling data management program prototype

Sep 2017 – May 2018 **Drilling Research Intern –** *Rig Automation & Performance Improvement in Drilling*

* Assisted in quantifying relationship between rock strength and mechanical specific energy
* Developed an automated PDF parsing program that interprets data from PDF drilling morning reports
* Provided programming assistance in cleaning, processing, and managing raw drilling data

**Projects**

Jan 2019 – Present **Pythonic Excursions –** *https://aegis4048.github.io*

* Personal blog where I post articles related to Python, data science, statistics,
* Designed and developed all front-end and back-end components of the blog

**Contests**

Spring 2018 **Society of Petroleum Engineers Local Paper Contest - Participant**

* Presented the application of neural network algorithm to decrease uncertainty in shale plays

Spring 2017 **The Energy Case Competition - Finalist**

* Provided natural gas vehicles as a solution to growing energy demand & climate change issues

**Skills:** Python, Django, statistics, machine learning, NLP, jQuery, HTML, CSS,