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,