

ETHAN LIWANAG

DATA SCIENTIST

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EDUCATION

STANFORD UNIVERSITY
B.S. Management
Science &
Engineering 2016

SKILLS

PROGRAMMING LANGUAGES

Python
SQL
HTML/CSS

PYTHON LIBRARIES

Pandas
Numpy
SciKit Learn /
Statsmodels
Beautiful Soup / Selenium
NLTK

SUPERVISED LEARNING

Linear Regression
Logistic Regression
K-Nearest Neighbors
Random Forests
Naive Bayes
Gradient Boosting
Support Vector Machines
Time Series Analysis

UNSUPERVISED LEARNING

Natural Language
Processing
Clustering
Dimensionality Reduction

DATABASES / CLOUD

MongoDB
PostgreSQL
AWS

VISUALIZATIONS

Tableau
Microsoft PowerBI
Matplotlib / Seaborn

EMPLOYMENT

METIS

DATA SCIENTIST

MAR. 2020 TO CURRENT

- Developed projects as part of an ACCET accredited, 12 week data science program focused on Python, supervised and unsupervised machine learning, visualization techniques, and project design.
- Designed, implemented, and presented 5 end-to-end projects utilizing data acquisition, cleaning, and modeling techniques to derive data-driven insights.

HANNIBAL INDUSTRIES, INC.

CONTINUOUS IMPROVEMENT MANAGER

JAN. 2019 TO JUNE 2019

- Used analytical skills on a wide range of projects including process improvements, reorganization of tubing warehouses, creation of Excel macros, and implementing Asana as the company standard for project management.
- Developed Business Intelligence dashboards using Microsoft Power BI.

PROJECT ANALYST

JUNE 2018 TO JAN. 2019

- Performed financial analysis on the profitability of all ongoing large-scale projects to customers like Amazon, DHL, and Sysco.

VENTURA GRAND CHATEAU

OPERATIONS MANAGER

MAR. 2017 TO MAR. 2017

- Managed daily operations of a newly acquired Assisted Living Facility.
- Worked closely with Chief Administrator to create the financial operating plan, evaluated and interviewed new hires, and assisted with onsite work.

TRIOLOGY

JR. DEAL LEAD

JUNE 2016 TO JAN. 2017

- Helped orchestrate 3 acquisitions representing over \$25 million in value as a Deal Lead for the Trilogy Mergers & Acquisitions team.
- Coordinated the due diligence, integration, and restructuring phases of each deal.

STANFORD EPGY

RESIDENCE COUNSELOR

MAY 2012 TO SEPT. 2012

- Teacher's Assistant in the Artificial Intelligence course of Stanford's Educational Program for Gifted Youth (EPGY).
- Graded and provided feedback on student assignments, aided in teaching the basic principles of AI.

CSCO.AI HACKATHON ENTRY

Predicted the winner of Counter Strike : Global Offensive rounds by using a Random Forest Classifier. Performed extensive feature engineering to achieve a final model accuracy of 81.8%, a ~30% improvement over a Dummy Classifier.

TOPIC MODELING OF DATA SCIENCE ARTICLES ON MEDIUM

Used MongoDB to store data and identified topics using Latent Semantic Analysis (LSA). Improved interpretability of topics by applying a number of NLP pre-processing techniques.

PREDICTING MOVEMENT OF STOCK PRICES

Performed binary classification on stock tickers to determine whether the stock would increase or decrease in price. Utilized ROC curve analysis to evaluate performance of multiple classification models. Stored data into an AWS EC2 instance using SQLAlchemy and PostgreSQL.

FORECASTING NBA POINT TOTALS

Used Linear Regression with regularization and Time Series techniques to predict the scores of NBA games. Scraped data from basketball-reference.com using Beautiful Soup.

MS&E SENIOR PROJECT

Optimizing Santa Clara County 911 Dispatcher Recruitment, 2nd Place.