

Ronnie Nop

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SKILLS

Programming Languages: Python, R, SQL

Libraries: NumPy, Pandas, Matplotlib, Flask, Scikit-learn, Keras, TensorFlow, PySpark

Technologies: Microsoft Azure Cloud, Databricks, GitHub, Google Colab, JupyterLab, SAS, Stata, Tableau

Machine Learning: Linear Regression, Logistic Regression, PCA, Clustering, XGBoost, Neural Networks

Tasks: A/B Testing, Cloud Computing, Natural Language Processing, Survival Analysis, Visualization

Leadership: President of the Cambodian Student Association at UCSD

EDUCATION

Artificial Intelligence Professional Program - *Stanford University* Expected 2022

- Coursework: AI Principles & Techniques, Natural Language Understanding

Google Data Analytics Professional Certificate - *Coursera and Google* Dec 2021

Masters in Statistics - Clinical Specialization (GPA: 3.7/4.0) - *University of Newcastle* Jan 2020

- Coursework: Applied Statistics, Probability Theory, Hypothesis Testing, Regression Modeling

Bachelors in Pharmacological Chemistry - *University of California, San Diego* Jun 2015

EXPERIENCE

The Data Incubator New York City, New York

Data Science Fellow Jan 2020 - Apr 2020

- Awarded a full-time fellowship dedicated to applying data science, machine learning, and visualization techniques to problems impacting NYC with the collaboration of senior data scientists and other fellows
- Utilized Python, PySpark, SQL, and Tableau to build optimized data pipelines and visualizations for insights
- Presented individual capstone project to predict the stock market using a machine learning model trained on technical and alternative data deployed as a fully-visualized Flask app on Heroku

ThoughtSTEM San Diego, California

Lead Coding Instructor Oct 2017 - May 2018

- Mentored students through various coding projects and answered questions using effective communication

OptumRX San Diego, California

Pharmacy Technician Jul 2015 - Jul 2017

- Managed a K-Med Robotic Unit utilizing AI and machine learning to efficiently sort and dispense prescriptions
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PROJECTS

Top Participant in the Numer.ai Data Science Tournament 2021 - Present

- Utilized Python to train XGBoost models and Neural Networks on 16GB of financial data strategized around reducing risk and overfitting, implementing time-series cross-validation, and optimizing Sharpe ratios
- Automated the weekly serving of model predictions using Microsoft Azure Cloud to generate passive income
- Generated cumulative returns of +85% with models ranking in the top-100 for 14 weeks straight out of 5,000 participants, winning multiple gold medals for being in the top 99th percentile in trading performance

Sentiment Analysis of r/WallStreetBets Subreddit Dec 2021

- Built an automated sentiment analysis pipeline in Python to compute the most discussed stocks and their overall sentiment among the 10-million users of the popular trading subreddit r/WallStreetBets
- Utilized multiple APIs to scrape user comments that were cleaned and pre-processed using NLP techniques to compute sentiment with a VADER model and a BERT transformer via Hugging Face
- Visualized the most discussed stocks of 2021 and their overall sentiment as a Tableau dashboard