

GLEN SVENNINGSSEN

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SUMMARY

PhD in Chemical Engineering from University of California, Riverside and a certificate in FinTech from Northwestern University. Proven team-work and leadership from 2+ years managing research lab designs and developing risk management solutions to support the reporting needs of the McCormick School of Engineering. Well versed in technical research, problem solving, and developing technical designs to collaborate with large team-based projects.

TECHNICAL SKILLS

Languages: Python, SQL, HTML, Matlab, AspenPlus

Tools: Excel, Seaborn, Pandas, Jupyter Notebook, Numpy, PostgreSQL, Databasing, Matplotlib, Scikit-Learn,

Applications: GitHub, MySQL, AWS, Command Line, GIT, CoLab

Certificates: HAZWOPER 40 hrs,

EXPERIENCE

Safety Engineer

Northwestern University

2018 – Present

Evanston, IL

Key Accomplishments:

- Provided 150+ data-driven risk assessments for improving lab design & processes.
- Mitigated risk of 100+ research labs via timely analysis of experimental proposals.
- Assisted project managers in the design of 50+ labs to ensure high research standards.
- Acted as an EHS subject matter expert for 80+ professors and 1000+ researchers.

PhD Chemical Engineer Graduate

Researcher

University of CA, Riverside

2013 – 2018

Riverside, CA

Key Accomplishments:

- Optimized bio-fuel production yields from sugar via low-cost techno-economic analysis and published work in ACS journal and thesis
- Instructed 400+ students in 5 advance chemical engineering courses.
- Performed techno-economic analysis via Aspen Plus to pin-pin-point and reduce production costs, lowering the minimum selling price of high-octane furans by 45% compared to previous reports.

PROJECTS

Scopus WordCloud | https://github.com/glensven/NanoSafety_NLP_Analysis

Produces WordClouds plots from published literature via the Scopus search API to visualizes frequency of subject areas, sentiment, and interest linked to a queried word

- **Role:** Sole Author
- **Tools:** Jupyter Lab, NLTK, WordCloud, API, Panel, Plotly, Pandas, Param

LSTM Crypto Sentiment Analysis | https://github.com/glensven/LSTM_Crypto_Sentiment_Analysis
Utilizes NLP sentiment analysis and LSTM RNN on national news to determine its relationship on Cryptocurrency Prices **Role:** Primary Author

- **Tools:** Jupyter Lab, LSTM, VADER Analysis, API

Cryptocurrency Price Correlations | https://github.com/glensven/Cryptocurrency_Price_Correlations
Retrieval of Cryptocurrency Data from Glassnode to perform Analysis of Cryptocurrency Correlations for Price Forecasts

Role: Primary Author

- **Tools:** Jupyter Lab, LSTM, VADER Analysis, API

Country Mortality Analysis | https://github.com/glensven/Country_Mortality_Analysis

Dashboard to visualize the impact that the COVID-19 Pandemic across multiple countries and their respective death total and death rate

- **Role:** Primary Author
- **Tools:** Jupyter Lab, Panel, Pandas, Holoviews

EDUCATION

FinTech Bootcamp Certificate 2021
Northwestern University Evanston, IL

- A 24-week intensive program focused on gaining technical programming skills in VBA, Python, SQL, Big Data, Ethereum, Blockchain, and Machine Learning.

PhD in Chemical & Environmental Engineering 2018
University of California, Riverside Riverside, CA

Masters in Chemistry & Biochemistry 2013
Northern Illinois University Dekalb, IL

BS in Materials Science Engineering 2010
University of Illinois Champaign-Urbana Urbana, IL