**Glen Svenningsen**

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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** 2018 – Present

**Northwestern University** 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 system designs.
* Assisted project managers in the design of 50+ labs in technical writing and grant proposals.
* Acted as an EHS subject matter expert for 80+ professors and 1000+ researchers.

**PhD Chemical Engineer Graduate Researcher** *2013* – 2018

**University of CA, Riverside** 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 manufacturing 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 Crytocurrency 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