

Frank Novak

Data Scientist

Arnaudville, LA | 337-280-2248 | franknvk@gmail.com | [LinkedIn](#) | [Github](#) | [Portfolio](#)

Skills

Languages: Python, SQL, Scala, HTML, Visual Basic

Libraries: Pandas, Matplotlib, Sci-kit Learn, Statsmodels, Tensorflow / Keras, NLTK, Apache Spark

Computer Skills: Machine Learning, Neural Nets, Data Visualization, Microsoft Office Suite, Adobe Suite, Rekordbox

Projects

[NIJ Recidivism Forecasting Group Project](#)

December 2022

- Processed and analyzed parole data using Pandas to classify persons with a high risk of recidivism. Using SKLearn machine learning models and Keras neural nets to optimize Brier Score and predict high risk individuals.

[Reddit API and NLP Analysis](#)

December 2022

- Collected and preprocessed text data using Redshift API, NLTK, Pandas, NumPy, and SKLearn Vectorizers. Built machine learning classification models that predict between subreddits based on specific vocabulary and sentiment analysis values.

[Ames Housing Price Prediction](#)

November 2022

- Cleaned and preprocessed 100+ home features from Ames, Iowa home sales data using SKLearn. Whittled down collinearity using a custom variance inflation factor function to enhance modeling. Grid-searched regression models to determine the most important home features and identify most profitable regions for investment.
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Professional Experience

Fellow | General Assembly | Remote

October 2022 - January 2023

- A full time, 12-week, Python based data science bootcamp focused on: supervised data modeling, data visualizations, machine learning and deep learning fundamentals, big data, and portfolio development via individual and group projects.

Quality Control Manager | Cerebral Brewing | Denver, CO

August 2019 - October 2022

- Lead production team in sanitation, flavor treatments, yeast management, and quality control audits
- Saved 99.5% of yeast costs through effective in-house yeast propagation procedures
- Ensured microbial integrity of 2200+ bbls./year of product using qPCR; resulting in 0 volume of lost product
- Created, standardized, and implemented Standard Operating Procedures for 20+ critical production processes
- Developed recipes and products that won 7+ national level awards

Cellarman | Parish Brewing Company | Broussard, LA

March 2017 - July 2019

- Responsible for CIP, sanitation, and regular maintenance of fermentation vessels, brite tanks, and general brewery equipment
- Proven multitasking and time-management skills to fulfill 15,000+ bbl./year production schedule
- Developed products, art direction, and social media campaigns for special release collaborations

Math and Science Tutor | UL Office of Disability Services | Lafayette, LA

January 2013 - May 2016

- Provided private tutoring for 20+ students daily
 - Tailored study sessions based on the student's specific needs and preferred learning style.
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Education

General Assembly | Remote

October 2022 - January 2023

Data Science Immersive

University of Louisiana | Lafayette, LA

Bachelor of Science in Chemical Engineering, GPA: 3.4 / 4.0

May 2016