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

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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.

Professional Experience

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.

Education

General Assembly | Remote   October 2022 - January 2023

Data Science Immersive

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.

University of Louisiana | Lafayette, LA   May 2016

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

Totaling 140 credit hours, the curriculum focused on mathematics, analytical and physical chemistry, plant design and capital cost analysis, material science, plant safety, professional ethics, and biomaterials.