Crystal Goulet

UC Berkeley Graduate | Python, SQL, AI & Analytics | Passionate About Real-World Impact

PROJECTS & EXPERIENCE

Machine Learning Artificial Intelligence Class Project

SUMMER 2024

Developed and fine-tuned neural networks (PyTorch) for digit classification (MNIST) and language identification

Achieved 92.55% test accuracy through batching, feature engineering, and activation function tuning

Production Control SQL Database, Data Engineering Class Project

FALL 2024

Planned, designed, and implemented SQL schema.

Improved data structure, consistency, and reporting capabilities

Mental Health in the Tech Industry, SAAS Club Decal Project

SPRING 2023

Led EDA on 1M+ data points, uncovering trends in health inspection scores

Delivered insights to improve compliance and decision–making across facilities

Data Analytics Associate, ASUC Senate (Volunteer)

SPRING 2022- FALL 2023

Conducted sentiment analysis on campus surveys using NLP techniques

Identified barriers to student participation; findings directly shaped new policy and boosted engagement

SKILLS

Data Engineering & Tools: SQL (Query Optimization, Relational Algebra), Snowflake, MongoDB, ETL Pipelines, Data Cleaning & Preprocessing, Tableau, Matplotlib

Machine Learning & AI: Neural Networks (Perceptron, CNNs), Reinforcement Learning, Clustering, Decision Trees, Regression Models, Time Series Forecasting, A/B & Multivariate Testing

Analytics & Modeling: EDA, Feature Engineering, Statistical Modeling, Hypothesis Testing, Causal Inference, Financial Data Analysis, Risk & Scenario Modeling

Platforms & Environments: Python, Linux, Bash, Excel, Windows, MacOS, Kaggle

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LEADERSHIP & INVOLVEMENT

PTK Honor Society – Historian

-Oversaw club marketing strategy, managing social media, media design, and promotional content -Coordinated campus-wide events and maintained documentation to support member engagement

SWEE – Project Manager

- -Oversaw student-faculty engagement and project lifecycle from planning to execution
- -Facilitated collaborations for beach cleanups, safe water system development in Africa, and solar-powered smoothie events

COURSEWORK

- -Artificial Intelligence
- -Business Analytics
- -Healthcare Analytics
- -Data Engineering
- -Data, Inference, and Decisions
- -Data Structures &

Programming Methodology

- -Principles & Techniques of Data Science
- -Computational Structures in Data Science
- -Structure and Interpretation of Computer Programs
- -Concepts of Probability
- -Linear Algebra and Differential Equations