

CHRISTIAN NORMAND

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PROFILE

I am a strategic problem solver who uses data science to tackle complex challenges. While working at a start-up, I leveraged skills in data engineering, project management, and experimental design to help develop state-of-the-art wastewater treatment technology. As a motivated and curious relationship builder, I want to help mission-driven companies understand the context of a problem through data and collaboration to produce meaningful and actionable solutions.

SKILLS

Coding: Python, SQL, Pandas, NumPy, SciPy, ScikitLearn **Machine Learning:** Regression, Classification, Natural Language Processing (NLP), Image Processing, Feature Engineering, Principal Component Analysis (PCA) **Data Visualization:** Matplotlib, Plotly, PowerBI

EXPERIENCE

DATA SCIENCE IMMERSIVE

GENERAL ASSEMBLY

Madison, Wisconsin

Jun 2021 – Sep 2021

- Implemented active learning strategies to efficiently train a convolutional neural net for multiclass image classification.
- Worked with a team of data scientists using NLP techniques and an XGBoost model to identify signs of harassment in online comments.
- Developed binary classification models using logistic regression, random forest, and support vector classification, to classify reddit posts into their corresponding subreddits.
- Used Python and Pandas to analyze data from the California Department of Education and form insights about diversity at the state's universities.

LABORATORY ANALYST

NUTRIENT RECOVERY AND UPCYCLING

Madison, Wisconsin

May 2017 – Jun 2019

- Managed laboratory operations during a nine-month pilot of cutting-edge wastewater treatment technology. Designed and executed experiments, collected samples, coordinated with external laboratories, and helped operate an industrial wastewater treatment process.
- Analyzed data using Python and Pandas to trace phosphorus, calcium, and other elements throughout a complex treatment process.
- Developed a real-time dashboard with SMS alerts using Python, Azure Functions, and PowerBI to enable more autonomous process control.
- Created reports, presentations, and data visualizations using matplotlib and plotly.

INTERFACE ENGINEER

EPIC

Madison, Wisconsin

Jul 2016 – Feb 2017

- Worked on data pipelines to facilitate the transfer of information between medical systems.
- Provided technical support to users of Epic's electronic health record software including on the ground support during product go-lives.
- Designed a programming utility to help with routine backend administration tasks.
- Worked across teams to solve complex problems in the hospital setting.

EDUCATION

DATA SCIENCE IMMERSIVE

GENERAL ASSEMBLY

Madison, Wisconsin

Jun 2021 – Sep 2021

B.S. MECHANICAL ENGINEERING

ARIZONA STATE UNIVERSITY

Tempe, Arizona

Aug 2012 – May 2016