CHRISTOPHER DENO

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SUMMARY

Full-stack data scientist with **5 years of experience** in data (2 industry, 3 academia research). Expertise in data analytics, machine learning, and data engineering. Background in art market instills a focus on **user-centered design** and **diverse industry perspective**.

EDUCATION

University of Pennsylvania | Philadelphia, PA

Post-Baccalaureate, Data Analytics

Mar 2022

Bachelor of Arts, Philosophy and Art History

May 2021

Courses: Data Engineering (SQL), Full-stack Software Engineering, Data Structures/Algorithms, DevOps

University of Illinois – Springfield | Springfield, IL

Bachelor of Science, Mathematics

May 2023

Courses: Machine Learning, Statistics, Probability, Linear Algebra, Discrete Mathematics, Multivariate Calculus

DATA EXPERIENCE

Data Science Intern

Jun 2023 – Aug 2023

United States Department of Defense | Washington, DC

- Staffed to Naval Surface Warfare Center: Crane Division (NSWC Crane)
- Will create a machine learning product (NLP) that ingests and prioritizes AI research for military budgets and policy strategy

Data Science Apprentice

Mar 2023 - Jun 2023

Adobe Inc. | New York, NY

- Selected scholarship finalist for Adobe's Digital Academy apprenticeship; engaged in 480+ hours of instructor-led content
- Successfully completed 3 machine learning hackathons, 4 data projects, and 1 capstone project

Data Analyst Contractor

Sep 2021 – Mar 2023

- Total 2 years: PNC (intern), Tzu Chi Medical Foundation (contract), 2U Education (part-time), Wyzant (freelance)
- PNC: Saved \$375k via data-driven recommendations on loan pipeline; created 8 dashboards for 7 departments
- Tzu Chi: Decreased patient treatment time by 25% via dashboards and data automation that streamlined office productivity
- <u>2U Education</u>: Taught 210+ hours of 2U's data analytics curriculum to 35 students; created classroom analytics to monitor
- Wyzant: Tutored 65+ hours of computer science and data to 25 students; average raise of 2.7 letter grades

Machine Learning Fellow and Researcher

Jun 2012 – Sep 2013, Nov 2021 - Jan 2023

Cambridge University, et al. | Cambridge, England, et al.

- Total 3 years: most notably Cambridge (post-bacc), CSUN (post-bacc), UF (intern)
- Cambridge: Researched transformer interpretability: experience with raytracer, ResNet, backprop, BERT, and LLMs
- CSUN: Researched machine learning curriculum to add to a Spring 2023 graduate-level machine learning class
- <u>UF</u>: Researched SVM param space to detect Alzheimer's biomarkers; published <u>paper</u>

Art Analyst

Sep 2017 – Aug 2020

- Worked 3 years in art markets: most notably at Christies (intern) and Philadelphia Museum of Art (full-time)
- <u>Christie's</u>: Contributed to 3 sales (collection net \$19.5M) and establishing "Net Art/generative art" category
- PMA: Analyzed 22+ artworks and artifacts for museum Acquisition team to add to permanent gallery

SELECTED PROJECTS (FULL PORTFOLIO)

Deepfake Image Classifier App | Source

May 2023

 $Python:\ Matplotlib,\ Numpy,\ Pandas\mid Tensorflow:\ Keras\mid Streamlit$

• Developed an EfficientNetv2 convolutional neural net to detect deepfakes (0.99 validation precision)

Poisonous Mushroom Identifier Full-Stack App | Source

Mar 2022

Python: Matplotlib, Numpy, Pandas, Seaborn, Flask, SQLAlchemy | Tensorflow: Keras | SQL | HTML/CSS/JS

• Developed a full-stack web-app that applies RF, SVM, LogReg to detect poisonous mushrooms (0.99 validation accuracy)

SKILLS & FLUENCIES

• Languages: Python: OOP & Functional | HTML/CSS/JS | APIs | Git

Machine Learning: Python: Scikit-Learn, Keras, Numpy, Scipy | Statsmodel | Tensorflow (G. Collab)

• Analytics/Visualization: Python: Pandas, Matplotlib, Seaborn | Tableau | Excel/VBA

Database, Cloud, DevOps:
 Domains
 SQL | NoSQL | Apache Hadoop/Spark | AWS | Python: Flask, SQLAlchemy | Streamlit
 Classification / Segmentation | Regression / Forecasting | NLP | Computer Vision | LLMs

HOBBIES