

Jessica Brungard

Data Science & Analytics Professional

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Summary

Data Scientist with expertise in Python, R, and SQL, specializing in deep learning and natural language processing. Skilled in PyTorch and HuggingFace, with extensive experience in the use of generative text models and clustering algorithms. Valued for effective communication, interpersonal strengths, and a history of offering unique and innovative solutions.

Experience

Contract Data Scientist | *Pacific Gas and Electric Company*, Oakland, CA

November 2023 – July 2024

- Migrated workflows from Jupyter notebooks to a scalable PySpark codebase in Palantir Foundry to improve preprocessing data management.
- Trained Doc2Vec model for generating embeddings to effectively capture contextual nuances and semantic relationships in domain-specific textual data.
- Applied vector similarity measures (e.g., cosine similarity) to identify present document matches, integrating results into interactive dashboards for clustering analysis and search interfaces for document retrieval.

President | *Cal State East Bay Data Science Club*, Hayward, CA

January 2022 – August 2022

- Guided workshops on Natural Language Processing (NLP) tasks, including sentiment analysis, tokenization, and visualization techniques.
- Organized and led bi-monthly data science discussions, to enhance the understanding of classical machine learning and statistical models.

Assistant Instructor of Statistics | *California State University East Bay*, Hayward, CA

June 2021 – June 2022

- Delivered hands-on tutoring sessions in Excel and R programming, empowering students with practical data analysis skills.
- Provided real-time in-class support and lecture assistance, clarifying statistical theory to elevate students' conceptual understanding.

Vice President | *Cal State East Bay Data Science Club*, Hayward, CA

May 2021 – January 2022

- Created and implemented strategic initiatives using presentations and interactive sessions, emphasizing each stage of the CRISP-DM data science lifecycle.
- Moderated an online machine learning discussion group which gained over 100 members.

Education

Master of Science, Data Science | *University of San Francisco* | San Francisco, CA

July 2022 – June 2024

Bachelor of Science, Statistics (Data Science Concentration) | *California State University, East Bay* | Hayward, CA

August 2020 – April 2022

Projects

- [AI-Powered Content Generation Platform](#)
 - Leverages Salesforce's BLIP-2 and Google's Gemini API to generate engaging image captions and hashtags.
 - Integrates image processing and natural language understanding to deliver context-aware AI-driven content generation.
- [Intelligent Document Clustering and Labeling](#)
 - Implements a document clustering framework using BERTopic for scalable topic extraction across extensive text datasets.
 - Incorporates Llama2 to generate precise, context-relevant cluster labels, improving interpretability and actionable insights.
- [Scalable Data Pipeline for Spotify Analytics](#)
 - A data pipeline that provides realtime insights into Spotify user data with MongoDB charts, leveraging Apache Airflow for orchestration, Spark SQL and NoSQL for data transformation, and Google Composer for workflow automation.

Relevant Coursework

Generative AI • Artificial Intelligence for Business & Startups • Relational Databases • Distributed Data Systems • Advanced Python Programming • Advanced Machine Learning • Deep Learning • Data Structures and Algorithms • Linear Algebra • Time Series Analysis • Linear Regression • Data Analytics • Data Visualization.

Certifications

- [IBM Data Science Professional Certificate](#) – December 2021

Recognitions

- [Justin Randle Memorial Scholarship Recipient](#) – June 2022
- Summa Cum Laude Distinction, Bachelor of Science – April 2022