Jacqueline Unciano

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EDUCATION

M.S. | Data Science
University of Virginia • Charlottesville, VA

B.A. | Statistics
University of Virginia • Charlottesville, VA
Interdisciplinary in Biology

PROJECTS

Human Trafficking Detection | Lead Engineer & Project Manager | 10/2023 - 04/2024

- Led the development of an ML classification model using NLP techniques on 200+ court cases.
- Processed and cleaned large datasets, achieving 90%+ model accuracy and precision for document classification.
- Applied supervised learning techniques, feature engineering, and model tuning to improve predictive performance.
- Collaborated with cross-functional teams to present findings and recommend strategic improvements.

Synthetic Image Detection | Co-Developer | 04/2024 - 04/2024

- Developed and evaluated deep learning models (CNNs) to classify AI-generated images with over 95% accuracy.
- Conducted inference testing, demonstrating a 100% detection rate for synthetic images but identifying challenges in false positives for real images.
- Proposed future work improvements, including fine-tuning hyperparameters, training on higher-resolution datasets, and applying neural architecture search techniques.

SKILLS

Tools & Platforms: dask, dplyr, ggplot, GitHub, matplotlib, NLP Tools, numpy, pandas, plotly, Python, R, scikit learn, tidyverse, SQL, Microsoft Office, Jupyter

Technical Skills: Classification Modeling, Data Manipulation, Data Visualization, Data Wrangling, Logistic Regression, Predictive Modeling, Regression Analytics, Natural Language Processing, Machine Learning, Deep Learning

Competencies/Personal Skills: Analytical Thinking, Communication (Written/Oral), Data Analytics, Data Science, Research & Analytics, Organizational, Stakeholder Collaboration

WORK EXPERIENCE

AFSCME INT'L Labor Union • Washington, DC | 08/2024 - 10/2024

Data Assistant

- Streamlined member communication processes, reducing response times by 15% through optimized workflow automation.
- Managed and processed high-volume inquiries, ensuring 100% issue resolution within service-level agreements (SLAs).
- Maintained accurate records of communications, promoting efficient information retrieval and follow-ups.

Novo Vista LLC • Charlottesville, VA | 08/2022 - 05/2023

DEI and Change Management Consultant

- Delivered client presentations, translating data insights into clear, actionable strategies.
- Participated in client meetings and tracked project milestones to ensure timely delivery of recommendations.
- Used data visualization tools to support strategic decision-making and foster better communication with stakeholders.