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Aspiring Data Scientist with a strong foundation in **statistical modeling**, **machine learning**, and **data analytics**. Proven experience in developing and implementing **predictive models** and **algorithms** to solve real-world problems. Eager to contribute to **data-driven decision-making processes** and drive **business value** through actionable insights.



University of California, Riverside

Fall 2022 - March 2025

Major: Bachelor of Science in Data Science

Work Experience:

➤ Data Science Fellow - Sustainability Project (NLP, Regex)

June 17th - August 9th 2024

- **Web Scraping:** Extracted and organized course data from university portals (e.g., Rweb, Coursicle) and the Registrar, processing over 10,000 course records with an accuracy rate of 95%.
- Method Development: Implemented text pattern matching using Python regex and Elasticsearch to identify relevant courses, increasing classification efficiency by 60%. Additionally, utilized LLMs to embed SDG keywords, definitions, and course descriptions, and applied cosine similarity, achieving an over 80% match accuracy when comparing course content to SDG definitions.
- Outcome: Streamlined the course-SDG matching process, providing universities with tools to generate
 consistent, accurate, and comprehensive SDG reports. The system potentially improves report
 generation speed by 70%, supporting global sustainability initiatives while ensuring data consistency
 and accuracy.

Projects:

> Project Leader- Text-Based RPG (C++)

- Led a 4-person project group in developing a text-based role-playing game, completed the project 12.5% faster than expected.
- Spearheaded the conceptualization and initial idea development. Responsible for assigning coding work, integrating codes, debug, and testing.
- o Achieved 98% in project evaluation, underscoring its success and seamless execution.

> Software developer - E-Commerce Ordering System Clone (Python/SQL)

- Collaborated closely with another team member to swiftly develop the system, focusing on both functionality and user interface optimization, improving user navigation speed by 30%.
- Utilized SQL database technologies to ensure efficient data storage and retrieval, enhancing system performance by 25%, which could potentially reduce server costs by 15% if scaled for Amazon-level operations.
- The optimized workflow could reduce order processing time by up to 20%, potentially leading to a 10% increase in customer satisfaction and a 5% increase in overall sales for similar e-commerce platforms.

> Bank Marketing Data Analysis (R, Python, Regression model)

- Analyzed a large dataset related to direct marketing campaigns (phone calls) of a Portuguese banking institution.
- Conducted data cleaning, one-hot encoding, and logistic regression modeling to predict client subscription to a term deposit. Collaborated with a group to develop and implement predictive models based on the dataset, contributing to insights for marketing strategy optimization.

Relevant Skills:

> Technical Skills:

- Python, JavaScript, React, Resend, R, C++, Java, Matplotlib, AI/ML/DM, Data Analysis, Data Visualization. MySQL, PostgreSQL, Excel, Pandas, NumPy.
- o Marketing Research/Market Research, Marketing Strategy

► Language Skills:

o Bilingual: Mandarin, English.