Julian Stephan Rippert

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Education

University of California, Berkeley – Master of Information and Data Science **Spring 2024 (Anticipated)**
Relevant Courses: Natural Language Processing; Applied Machine Learning; Statistics

University of the Pacific – Bachelor of Finance & Management Information Systems **2019**
Activities: NCAA D1 Golf, Pacific Legals Scholars, Freshman Honors Program, Student-Athlete Council

Projects

NLP Text Generation Fluency Score Model, *In-progress* **2023**
- Working towards developing a transformer model to improve the traditional BLEU metric which has shown poor correlation to human judgment. The goal is to overcome the challenges of surface-level similarities and lexical matched which BLEU is currently considering.

AMEX Credit Default Prediction, *Individual-Project, UC Berkeley* **2023**
- Developed a Random Forest Classifier and a Feedforward Neural Network to predict cardholder default based on monthly bank statement data (time-series). Utilized hyper-parameter tuning and cross-validation techniques which resulted in ~90% default classification accuracy.

New York Apartment Prices – Regression Model, *Team-Project, UC Berkeley* **2022**
- Constructed a regression model to predict apartment prices while incorporating EDA, feature engineering and data visualizations. Performance of model on test data set resulted in R^2 score of 0.77.

Food Delivery Route Optimization – Graph Database, *Team-Project, UC Berkeley* **2022**
- Built a Neo4j graph database from a graph stored in 3NF. Calculated geodesic distance and areas, and mapped population data by zip code to those areas. Utilized all pairs shortest path algorithm and page rank algorithm to optimize delivery routes and plan distribution centers.

Skills and Tools

- Python (NumPy, Pandas, Matplotlib, Seaborn), SQL, R, NoSQL, C++
- ML (Tensorflow, Keras, SKlearn)
- Git/GitHub, Jupyter, VScode, RStudio, AWS, LINUX CLI, Neo4j

Experience

Deloitte & Touche LLP (Analytics & Technology Group) **Los Angeles, CA**
Senior Consultant June 2021 – Present
- Executed analytics on client's Advertiser Brand Safety products to ensure ad deliveries occur next to appropriate content, resulting in Media Rating Council (MRC) accreditation for the company's feed environment.
- Strengthened client's data privacy policy onboarding process to reduce regulatory (and 3rd party) violations, by ensuring code locks were appropriately blocking Ads Signals from being used downstream prior to user consent. Ensured continuous testing of data leakage was functioning.
- Collaborated with a global technology company to help implement new signals for ML models to identify entities in violation of company policies within messaging threads. Implementation of new features resulted in additional policy enforcement of 3-4k entities daily.

Deloitte & Touche LLP (Risk & Financial Advisory Group) **San Francisco, CA**
Consultant July 2019 – June 2021
- Developed a new operational strategy for the Wealth Management division of a bank to handle and authenticate wire transfer requests due to a recent $8m wire fraud incident.
- Consulted with leadership of an InsureTech client for an IPO-Readiness assessment, to define operational & IT governance before IPO filing. The client filed in mid-2021.

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Cisco Systems, Inc.   **Amsterdam, Netherlands**
Intern   June 2018 – August 2018
- Pitched a corporate strategy to shift Cisco's products to a recurring revenue model to stabilize the firm's cash flow and earned 1st prize as part of the final intern competition.
- Optimized key EU client strategies by leading weekly syncs with clients and account leads to discuss new technology implementation ideas.

Eberhardt Student Investment Fund   **Stockton, CA**
Junior Analyst   January 2018 – May 2018
- Implemented a long/short strategy across various equity sectors in alignment with the fund's tactical asset allocation which led to a 27% return.
- Responsible for drafting economic outlook reports, holding reports, and equity recommendation reports related to the industrials sector.

Miscellaneous

Invited Talk   **Menlo Park, CA**
Governance in AI @ Meta   March 2023
- Helped develop and deliver client training providing a comprehensive overview of introductory AI and ML concepts, and AI governance industry best practices to Meta's Family-of-Apps Team.

Earl Woods Scholar Program (A Tiger Woods Charity)   **Irvine, CA**
Mentor   July 2022 - Present
- Mentor to a first-generation undergraduate freshman. Helped mentee stay on track with scholar program requirements, academic planning and career goals.