Noah Ferrel

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Data Scientist

Analytical and tech-savvy professional with progressive experience in leveraging advanced statistical analysis and machine learning techniques to extract valuable insights from complex datasets. Track record of driving data-driven decision-making, optimizing processes, and delivering actionable recommendations to enhance business performance. Proficient in data manipulation, feature engineering, and model development by using advanced libraries. Well-versed in data visualization and reporting tools to transform data into clear and compelling visual narratives. Strong foundation in statistical methodologies, including regression analysis, time series forecasting, and clustering techniques. Adept at data preprocessing, cleaning, and validation to ensure data quality and integrity for robust analysis. Adept at identifying opportunities for process improvement and automation to attain significant time and cost savings.

Technical Proficiencies

Python & R (Pandas, NumPy, Scikit- learn, TensorFlow) | C++, C#, SQL | MySQL, Postgres, SQLite, MongoDB | Machine Learning: Super Learner, Multinomial logistic regression, Gradient Boosting Regressor | Matplotlib, Seaborn, Tableau

Career Experience

The DevMasters, Irvine, CA — **2021 – Present**
Data Scientist

Implement advanced statistical techniques, including time series analysis and Bayesian modeling to derive actionable insights and forecast trends for decision-making. Collaborate with cross-functional teams to define and prioritize data science projects in line with organizational goals and strategies.

- Established comprehensive database for storage of secondary property data.
- Executed thorough data cleaning, preprocessing, and feature engineering to optimize model efficacy and performance.
- Applied SQL for extraction, manipulation, and analysis of data from relational databases such as PostgreSQL and SQLite.
- Employed machine learning techniques, including Super Learner to construct predictive models for diverse real estate types, enhancing mass appraisal accuracy.

Assessment & Associates, Long Beach, CA — **2020 – Present**
Data Analyst | Statistical Consultant

Engage with clients to comprehend research inquiries and data analysis requirements, delivering expert guidance on statistical methods and study design approaches. Employ statistical methodologies to extract meaningful insights from complex datasets and assist clients in making data-driven decisions.

- Produced Consumer Test reports by utilizing Python and LaTeX, facilitating effective communication of critical insights and recommendations.
- Spearheaded automation of quarterly reports for state-funded tobacco project, resulting in remarkable 30-hour reduction in labor per reporting cycle.
- Conducted in-depth analysis of survey data for State-funded Tobacco Control Program to offer valuable insights and actionable recommendations.

California State University, Center for Latino Community Health, Long Beach, CA — **2019**
Summer Data Scientist Intern

Assisted in development and execution of data-driven experiments, conducted exploratory data analysis, and prepared insightful reports to support data-driven decision-making. Coordinated with project team members to address data-related challenges and participated in lectures on contemporary research methodologies to attain up-to-date knowledge and best practices in field.

- Played pivotal role in data collection, cleaning, and analysis for "Comprando Rico y Sano" project, comprehensive evaluation initiative conducted by National Council of La Raza (NCLR).
- Trained community health workers and implemented randomized control trial across 10 nationwide sites to assess effectiveness of nutrition education and SNAP enrollment program.

Education & Credentials

Master of Science in Computational & Data Science | Chapman University, Orange, CA, 2021
Bachelor of Science in Mathematics with Minor in Computer Science | Chapman University, Orange, CA, 2020
High School Diploma (California Scholarship Federation-Seal Bearer) | Servite, Anaheim, CA, 2016

Professional Development

American Statistical Association (ASA) Datafest, 2019