JACOB STYS

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INTERN

Machine Learning • Data Science • Research Analysis

Data- and performance-driven professional leveraging ongoing bachelor's education in Statistics and Data Science, offering robust data and research analysis, communication, and organizational strategies.

Hard-working with the confidence and ability to deliver data insights and results. Strong orientation to machine learning (ML) and developing new algorithms, running experiments, ensuring data integrity, extracting complex data patterns, and applying basic reasoning skills.

Highly motivated, innovative, and creative, with attention to detail and a resourceful approach to problem-solving and decision-making. Nimble and able to adapt and change in a fast-paced environment as part of a team or individually.

Quantitative & Qualitative Research Methods
Complex Problem-Solving Skills
Statistics & Modeling
Data Research & Analysis
Interpersonal / Communication Skills
Data Visualization & Management

EDUCATION & CERTIFICATIONS

Bachelor of Science (BS), Statistics (Data Science), The University of Akron, Akron, OH – 5/2022

Relevant Coursework: Statistical Data Management, Applied Analytics and Decision Trees, Applied Regression and ANOVA, Computer Science, Theoretical Statistics, Advanced Statistical Computing, Statistical Consulting, Biostatistics and Epidemiology

Certified, Tableau Desktop Certified Associate – *Anticipated 1/2022*

Graphic Design for Print and Web Production Certification, Cuyahoga Valley Career Center, Brecksville, OH – 9/2016

TECHNICAL SNAPSHOT

Data Science: C++, R, SAS, SPSS, Python, SAS/SQL, Tableau, Data Visualization, Data Management
Software: Microsoft Excel, MS Office, Adobe Photoshop, InDesign

SELECTED PROJECTS & HIGHLIGHTS

Statistics Placement Test Project • The University of Akron • 1/2021 to 5/2021

- → Applied SPSS CHAID Algorithm Growing Method to determine whether a student succeeded or failed in the Statistics for Everyday Life placement test and what best predicts a student to fail or succeed.
- → Utilized Excel and pivot tables to execute data cleansing and data preparation.
- → Employed techniques, such as descriptive statistics, data validation, executing decision trees, classifications, risk estimates, and average squared error to evaluate information.
- → Results realized that the best predictor for a student to pass Statistics for Everyday Life placement test included a ≥ 3.6 GPA and not a first-generation college student with a success rate of 99.5%. The best predictor for a student to fail indicated a high school GPA ≤ of 2.4.
- → Consulted Dr. Mark Fridline with results and explained methodology used to determine findings.

Advanced Statistical Computing • The University of Akron • 1/2020 to 5/2020

Evolution of Baseball through Monte Carlo Markov Chain Methods

- → Used R code to compare baseball home runs from 1970 to 1994 and 1995 to 2020 while applying bootstrapping and MCMC methods.
- → Completed project with R code packages coda, BESTmcmc, and Rjags.
- → Generated MCMC samples for a posterior distribution to pinpoint actual mean, true standard deviation, normality, and difference in means. Created 2 Markov Chains with one chain posting 100K samples and another going to 5K samples.
- → Performed an effect size and autocorrelation to determine if the chain converged.
- → Results showed that baseball evolved to become a more offensive power-hitting game, and the autocorrelation for 5K samples did not converge, but the 100K samples converged.

Coronavirus cases in the United States

- → Utilized the boot package in R to generate sample means to predict the daily number of Covid-19 cases.
- → Identified 500 different data sample means to calculate the true mean of the data. Plotted the histogram of the t stat and the quantiles of the standard normal.
- → Data analysis determined the true mean of the daily Covid-19 cases at 30,861 with a standard error of 784.8 and a bias of 7.9. A 95% confidence interval found a 95% chance that the data lay between 28,716 cases to 32,118.

PROFESSIONAL EXPERIENCE

Intern • Life Equity LLC • Akron, OH • 9/2021 to 1/2022

Managed Life Settlement applications by performing case processing procedures such as entering and verifying data into a database. Entered life insurance illustrations into ClariNet LS which is used to run a successful business in life settlements. Filtered and sorted excel spreadsheets to verify and confirm important database information regarding insured clients and investors. Ability to communicate effectively with peers by providing inter-business information between departments. Performed quarterly servicing calls to insured clients and updated database information per client.

Sales Service Representative • Mondelez International • Akron, OH • 4/2021 to 9/2021

Optimize sales of Nabisco products through product merchandising and creative displays. Manage inventory and back stock at Target, Walmart, Giant Eagle, and Acme.

EXTRACURRICULARS

Member, Pi Kappa Epsilon Lonestar Fraternity, The University of Akron • 5 /2019 to 5 /2020
Philanthropy Chair 2019, 2020

Participant, Polar Bear Plunge at Portage Lakes, Fundraiser for Akron-Canton Regional Foodbank • Spring 2019