

MACKENZYE LEROY

Data Scientist

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EDUCATION

M.S. Data Science
University of Virginia
📅 2021 - current
📍 Charlottesville, VA
Sports Analytics Club

B.S. Physics, Minor in German
Washington and Lee University
📅 2014 - 2018
📍 Lexington, VA
Sigma Pi Sigma (Physics Honor Society)
Captain of Varsity Cross Country and Track & Field Teams

RELEVANT COURSES

Deep Learning (Spring 2022)
Data Visualization (Spring 2022)
Big Data Systems (Spring 2022)
Statistical Learning (Fall 2021)
Bayesian Machine Learning (Fall 2021)

LANGUAGES/SKILLS

Python: NumPy, Pandas, Scikit-learn, PyMC3, beautifulsoup, tensorflow...
R: Tidyverse, randomForest, CRAN ...
Data visualization: ggplot, Matplotlib, seaborn, Plotly, Streamlit
Machine Learning: Regression Models (Linear, Logistic, Lasso/Ridge/Elastic Net), KNN, K-means, Mixture Models, LDA/QDA, Ensembles, Neural Networks
SQL
Spark

WORK EXPERIENCE

Admissions Counselor & Data Specialist

Washington and Lee University

- 📅 July 2019 - July 2021 📍 Lexington, VA
- Worked closely with senior management to identify trends in application and prospect data over short-term and long-term periods to better inform our recruitment strategy
 - Supported the recruitment of incoming first-year undergraduates through in person and virtual high school visits, on-campus and city-wide general information presentations, and interviews
 - Responsible for reviewing hundreds of applications for admission
 - Integral to the transition to virtual outreach throughout COVID-19, including online information sessions, regional & national events, the Johnson Scholarship Competition, and the Diversity and Inclusion Visit Experience

English Language Teaching Assistant

USTA Austria (Administered by Fulbright Austria)

- 📅 September 2018 - June 2019 📍 Voecklabruck, Austria
- Developed and presented course materials for intermediate to advanced students ages 15-20
 - In addition to developing language skills, course work was designed to improve execution and style, encourage critical thinking, and develop an understanding of American culture and customs

Enterprise Risk Intern

Western Asset Management

- 📅 June 2017 - August 2017 📍 Pasadena, CA
- Implemented a new firm-wide vendor management software (Markit's KY3P)
 - Participated in all Enterprise Risk and Business Process Improvement meetings
 - Researched developing technologies in FinTech including Robotics Process Automation (RPA) and Blockchain

PROJECTS

Graduate Capstone

- 📅 August 2021 - current
- Currently working on a project for the Thomas Jefferson National Accelerator Facility (DoE) using traditional statistical learning and deep learning methods to preemptively detect faults in the accelerator in real time

Baseball Dashboard

- 📅 September 2021 - current
- Used beautifulsoup to scrape the results of every baseball game going back to 1900 to determine if regular season series success was indicative of postseason success. Turned final result into an interactive dashboard using streamlit and then deployed it to AWS (<http://52.14.213.53:8501/>)

Undergraduate Senior Thesis

- 📅 September 2017 - May 2018
- Used statistical physics and agent-based models (NetLogo) to analyze polarization in voter systems