Zachary Mackin

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EDUCATION

Texas A&M University   **College Station, TX**
Doctor of Philosophy in Statistics   August 2024 -

University of California, Berkeley   **Berkeley, CA**
Bachelor of Arts in Statistics, Computer Science   August 2020 - May 2024

PROFESSIONAL EXPERIENCE

Texas A&M University   **College Station, TX**
Teaching Assistant   August 2024-
- Educate students in Statistics, hold office hours, grade assignments, and collaborate with Professors.

Pacific Gas & Electric   **Oakland, CA**
Operations Data Analyst   January 2024- August 2024
- Managed data management projects and developed models for the Public Safety Power Shutoff team assisting in reducing the risk of wildfires by 94%.

University of California, Berkeley   **Berkeley, CA**
Teaching Assistant   May 2021 - May 2023
- Educate 100+ students a semester in introductory mathematics, statistics, and data science courses (primarily Data 8, an introductory Data Science course), maintain course websites, and develop course curricula.

Pacific Gas & Electric   **Oakland, CA**
Data Engineering Intern   May 2023- December 2023
- Collaborated with a team of engineers to develop and implement data pipelines and reports for the Public Safety Power Shutoff team and assist in reducing the risk of wildfires.

UC Berkeley School of Information   **Berkeley, CA**
Machine Learning Researcher   August 2023 - December 2023
- Employed computer vision to identify illegal sand mining operations in India.
- Developed a pipeline to extract raw geospatial data to do so with 99% accuracy.

Center for Human Sleep Science   **Berkeley, CA**
Machine Learning Researcher   January 2023 - May 2023
- Utilizing PyTorch, I employed various time series models in an attempt to develop a novel approach to forecasting human sleep data.

UC Berkeley EECS Department   **Berkeley, CA**
Machine Learning Researcher   August 2022 - December 2022
- Researched developing a more effective UAV for the DARPA SymCPS competition.
- Employed Python and AWS to develop more effective Deep Learning models to develop models for the UAVs that were 3x more efficient than previous UAVs.

The Economist Intelligence Unit   **Berkeley, CA**
Data and Research Analyst   August 2021 - January 2022
- Developed and improved a model that classified a country's risk of default such that it outperformed competitors. Utilized Pandas and SKLearn to clean data and produce the model.

Skills & Projects

Programming Languages/Libraries: Python, R, Java, SQL, Regex, Excel, Numpy, PySpark, Pandas, GGplot, SKLearn, Seaborn, Matplotlib, PyTorch, Tensorflow, Palantir Foundry
Projects: College Basketball Prediction Model (Python), Version Control System (Java), Adversarial Machine Learning