**POOJA AYACHIT**

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**EDUCATION**

**University of Washington|Seattle, WA 2022-2024**

Master’s Student, Data Science

**Mount Carmel College, Autonomous, Bangalore University|Bangalore, India 2016-2019**

Bachelor of Science, Biological Sciences|G.P.A: 3.97/4

**SKILLS**

**Languages:** Python, R, SQL; **Machine Learning & Deep Learning Applications:** Segmentation,Natural Language Processing, Time-series Forecasting, Reinforcement Learning; **Big Data**: Hadoop, Spark, Big Query;

**Data Visualization**: Power BI, Tableau, R-Shiny; **Tools:** AWS, Azure, Git

**WORK EXPERIENCE**

**University of California, Berekeley|Graduate Data Science Intern Jul 2023-Present**

* In collaboration with the Society of Data Science & Computing, U.C. Berkeley to analyze social media as a driver of vaccine misinformation in South-East Asia.
* Tasked with web-scraping data from social media platforms such as Telegram, Tiktok, Twitter, etc., targeted at the Malayan-Indonesian region to identify anti-vaccine sentiments among users and groups.
* Future Steps: Building NLP based models to perform Sentiment Analysis to track Vaccine Misinformation/Anti-Vaccine Sentiments post COVID, followed by creating Policy Memos to governments and stakeholders to tackle the issue at hand.

**PR Research and Policy Institute|Data Scientist and Project Manager Apr 2023-Present**

* Currently managing a team of Data Scientists and Public Health Professionals to analyze the current trends in Healthcare Access in Central Asia post-political changes between 2018-2023.
* Tasked with building Time Series models, and other Statistical models to predict present and future trends of healthcare access using datasets from the World Bank, UNICEF, WHO and the official Health Boards of Central Asia. Research is still on-going.
* Charged with organizing talks with stakeholders at the World Bank, WHO and UNICEF.

**University of Washington|Research Assistant Mar 2023-Jul 2023**

* In collaboration with Dr. Laura Prater on a project titled "Engaging Machine Learning and Data Linkage to Understand Firearm Suicide Among Females."
* Utilized the National Violent Death Reporting System (NVDRS) and the Washington Violent Death Reporting System (WA-VDRS) to develop and implement a Natural Language Processing (NLP) approach to contextualize female firearm suicide. Examined demographic and health care utilization patterns between cases using an NLP-enhanced WA-VDRS linked to multiple state-level administrative datasets.
* Accepted at the 2023 National Research Conference for the Prevention of Fire-arm Related Harm, Chicago, IL.

**PROJECTS**

**Flagging Suspicious Healthcare Claims Using Amazon SageMaker Jan 2023-Feb 2023**

* Leveraged unsupervised machine learning techniques to build a scalable and cost-effective solution for identifying outliers in medical claims data, improving the efficiency of fraud detection in the healthcare industry. The model was able to detect suspicion claims with 90% accuracy.
* Demonstrated expertise at deploying machine learning models at scale, utilizing cloud efficiently and cost effectively, resulting in significant cost savings for healthcare providers and consumers.