NAVLEEN KAUR

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**EDUCATION**

Old Dominion University | Norfolk, Virginia

Master of Science in Computer Science Expected May 2025

**TECHNICAL SKILLS**

* **Languages & Tools:** HTML, SQL, CSS, Python, Tableau, Pandas, Seaborn, NumPy, Git.
* **Certifications:** Data Science (Numpy, Pandas, Matplotlib).

**PROJECTS**

**Data Visualization and Analysis: Life Expectancy Mortality, and Disparities**

* Conducted data analysis on life expectancy and mortality trends using datasets (Expectation of Life at Birth, Death Rates by Age, Sex, and Race, and Death Rates for Major Causes of Death) with Excel and Python (Seaborn, Matplotlib, Pandas).
* Found increasing life expectancy (1970-1999) with females leading, Black populations lagging, and declining infant mortality rates. Identified a negative correlation between infant mortality and life expectancy, and Mississippi as having the highest death rates.

**Exploratory Data Analysis and Machine Learning : Ted Talks**

* Conducted exploratory data analysis and visualization on diverse datasets, including a speaker occupation dataset and a sleep health dataset.
* Examined speaker occupation patterns by leveraging Python libraries like Pandas, Matplotlib, and Seaborn to create insightful visualizations.

**Sentiment Analysis Using Machine Learning on Social Media Data**

* Built a sentiment analysis model using the Sentiment140 dataset to classify tweets as positive, negative, or neutral.
* Preprocessed text data and implemented feature extraction methods, including Bag of Words (BoW) and TF-IDF.
* Trained and evaluated Naive Bayes and Logistic Regression models, with Logistic Regression (BoW) achieving the highest accuracy of 78.48%.
* Demonstrated the effectiveness of BoW in capturing keyword presence for sentiment prediction.
* Provided insights into model performance, highlighting Logistic Regression's effectiveness and Bag of Words' suitability for capturing sentiment-related patterns, enabling practical applications in customer sentiment tracking and engagement strategies.

**Sentiment Analysis Using VADER and RoBERTa :**

* Developed a sentiment analysis pipeline leveraging VADER for rule-based scoring and RoBERTa for deep learning classification to analyze customer reviews.
* Visualized sentiment trends using Matplotlib and Seaborn, highlighting correlations between polarity scores and Amazon star ratings.
* Delivered actionable insights by comparing model outputs and uncovering sentiment patterns across feedback. Utilized Python, Hugging Face Transformers, and data visualization to effectively interpret unstructured textual data**.**

**EXPERIENCE**

Working as a Graduate Assistant at Old Dominion University for the Center for Career and Leadership.