

Elsie Basa

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EDUCATION

University of California, Davis
Master of Science in Statistics

Graduation Date: December 2023

Bachelor of Arts in Statistics

Bachelor of Science in Managerial Economics

RELEVANT EXPERIENCE

Business Data Analyst – Travis Credit Union

March 2021 – September 2022

Vacaville, CA

- Developed impactful dashboards in Tableau and SQL, incorporating key performance indicators (KPIs) and operational reports at both department and executive levels, resulting in a remarkable reduction of call wait times by over 50%.
- Performed UAT and A/B testing and created detailed test scenarios
- Utilized analytical skills to proficiently model and gain insights from data using Tableau, Python, and R, enabling data-driven decision-making and enhancing organizational understanding

RELEVANT PROJECTS

Face Mask Detection Model

December 2022 – January 2023

- Developed and deployed a CNN-based face mask detection model using PyTorch to detect whether individuals in images are wearing face masks with 90% model accuracy
- Collected and pre-processed a dataset of images and videos for training and testing
- Integrated the model into a real-time surveillance system using OpenCv and Numpy

Brain Tumor Classification Using Machine Learning

March – June 2023

- Conducted a comprehensive evaluation of algorithms, Random Forest, CNN, SVM, and Logistic Regression, for brain tumor classification based on MRI images
- Leveraged accuracy, precision, recall, F1 score, and AUC-ROC metrics to evaluate and compare model performance, demonstrating a mastery of their significance
- Provided key insights into the effectiveness of machine learning and deep learning techniques for precise brain tumor detection, highlighting their strengths and limitations.

SKILLS AND QUALIFICATIONS

• Programming/Computer Skills:

- Proficient in Python (Numpy, Pandas, Pytorch, Keras, Tensor Flow, Scikit Learn)
- R, Tableau, SQL, MATLAB
- Familiar with Agile and Waterfall development methodologies
- Strong organizational and time management skills

RELEVANT COURSEWORK

Machine Learning, Algorithm Design, Data Science, Data & Web Technologies for Data Analysis, Regression Analysis, Time Series Analysis