RYAN TRESOR KEMAJOU

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EDUCATION

University of Maryland College Park, MD
Bachelor of Science in Computer Science - Data Science August 2023 – May 2025
Relevant Coursework: Introduction to Data Science, Probability and Statistics, Data Structures and Algorithms, Artificial Intelligence, Linear Algebra, Machine Learning, Ethics in Data Science, Organization of Programming Languages
Leadership: ColorStack UMD (Secretary), Member of Code Black

Montgomery College Silver Spring, MD
Associate's in Arts in Computer Science with Honors February 2021 – May 2023

TECHNICAL SKILLS

Languages: Python, SQL, R, Java, C++, C, JavaScript, HTML5, CSS
Frameworks: TensorFlow, PyTorch, Scikit-learn, Django, Flask, NLTK
Technologies and Tools: Tableau, Excel, ggplot2, TensorFlow, Scikit-learn, PyTorch, MySQL, AWS, Amazon RedShift, Snowflake, Azure, Docker, Kubernetes, MongoDB, GIT, Unix, Jupyter Notebook, PyCharm, RStudio, VS Code

EXPERIENCE

Abundant Grace Health Services Washington, DC
Assistant IT Manager October 2021 - Present

- Developed a color-coded tool for care providers to prioritize attention areas for over 1000 clients by implementing an intuitive color-coding algorithm in Python, which streamlined data visualization and reduced analysis time by 60%.
- Analyzed client data for weekly reports using advanced data analysis techniques and visualization tools in Excel and Tableau, identifying key trends that informed strategic decisions and resulted in a 32% increase in company revenue.
- Led the data cleaning and migration process for 1 terabyte of data during a company platform transition by employing SQL and Python scripts to ensure 100% data integrity, thus minimizing system downtime and facilitating a smooth transition.
- Trained 54 staff members on technology resources and HIPAA compliance through hands-on workshops and interactive training sessions, which led to a 5% improvement in data security audit scores by enhancing staff understanding and adherence to compliance standards.

PROJECTS

NBA Champion Predictor **Python, Pandas, Scikit-learn, NumPy, Matplotlib**

- Engineered a predictive model for the 2024 NBA champion, processing 76 years of data and achieving 40% accuracy, a 83% improvement over baseline predictions, using comprehensive data science techniques.
- Implemented Random Forest and Gradient Boosting algorithms to analyze player and team metrics, achieving 65% accuracy in predicting the NBA season outcome.
- Visualized key insights and model predictions using Matplotlib, enhancing interpretability for non-technical stakeholders.

Analysis on E-commerce Data **Python, Pandas, Seaborn, Sklearn, Jupyter Notebook**

- Developed a linear regression model to predict yearly customer spending on an ecommerce platform, achieving 90% accuracy and identifying key factors influencing customer behavior.
- Conducted exploratory data analysis (EDA) to identify key relationships and correlations between features such as session length, time on the app, time on the website, and length of membership, which informed feature selection for the predictive model.
- Implemented and evaluated the model, highlighting Length of Membership and Time on App as the most significant predictors.
- Utilized error metrics like MAE, MSE, and RMSE to assess model performance, ensuring residuals conformed to normality assumptions.

Breast Cancer Classification **Python, Pandas, Sklearn, Seaborn, Collab**

- Developed a logistic regression model to classify breast cancer tumors as malignant or benign based on cell nuclei characteristics.
- Conducted comprehensive data cleaning, including handling missing values and encoding categorical variables, followed by normalization of features to improve model performance.
- Achieved 98% accuracy, demonstrating the model's effectiveness in predicting breast cancer outcomes.
- Evaluated model performance using metrics such as precision, recall, F1-score, and confusion matrix to ensure robustness and reliability.