

# Daneeth Reddy Tadiparthi

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## PROFESSIONAL EXPERIENCE

### Data Analyst

May 2019 – Jan 2021

#### KVP Group LTD | Guntur, India

- Created and developed complex spreadsheets, performing data cleansing, and conducting analysis using Excel's advanced functions such as VLOOKUP, HLOOKUP, INDEX, MATCH, and IF statements.
- Conducted data analysis on constructed datasets using SQL and Python to extract insights and identify trends.
- Python was used to validate and sanitize data, ensuring high levels of data accuracy of 90% and consistency, thereby enhancing data quality and dependability.
- Designed and implemented predictive models using Python and Excel to optimize business outcomes, resulting in a 12% performance increase for the organization.
- Excel and Tableau were used to generate insightful visualizations and reports, and statistical analysis was conducted to identify key trends and patterns for actionable insights.

## EDUCATION

### Masters in Data Science

Jan 2021 – Dec 2022

University at Albany, State University of New York

**Coursework:** Modern Computing of Mathematics (Python), Topological Data Analysis, Statistical Analysis, Machine Learning, Database and Data Analysis (SQL).

## ACADEMIC PROJECTS

### Master in Data Science

#### Practicum in Machine Learning

Nov.2022

- Utilized various machine learning techniques, such as Decision Tree, Ridge Regression, Logistic Regression, and Neural Networks, to analyze various datasets, such as 911, MNIST classification, and iris flower.
- Achieved a high level of prediction accuracy, between 85 and 95%, and produced comprehensive confusion matrices and error rates for further analysis.
- To ensure the robustness and dependability of the models, stringent 80% of data for training and 20% of data for testing procedures were carried out.
- Using Matplotlib and Seaborn, applied data visualization techniques to generate insightful mappings of the datasets.

#### Prostate Cancer and Eigenfaces project | Python

Nov.2021

- Utilizing sophisticated algorithms such as K-means and Support Vector Machine, successfully analyzed ½ million data of Prostate Cancer and Eigenfaces datasets.
- Implemented Eigenfaces data model and compared 8 blurred images using K-means and Bayesian Information Criterion to optimize the images.
- Calculated Principal Component Analysis for 500K data of the Prostate Cancer dataset to plot singular values and constructed robust regression models, such as Least Square and LASSO, while taking the Lambda parameter into account.

#### Predicting Cardio-Vascular Disease Project | Python

Mar.2021

- Using the Decision Tree method, a large dataset containing 1 million cardio-vascular records was analyzed.
- Achieved a high level of accuracy of 89% for the Decision Tree model by calculating entropy and establishing a tree depth of 5 for the dataset.
- Printed the results and compared them to other machine-learning algorithms to increase the accuracy of the dataset from 90 to 95%.

## TECHNICAL SKILLS

- Languages:** Python, R-Language, MATLAB, MYSQL.
- Tools:** Microsoft Excel and Office, Windows, Linux, Jupiter Notebook, GitHub, Valentia Studio 11, Microsoft Azure, Spark, Tableau, Power BI.
- Python Libraries:** NumPy, Pandas, Matplotlib, Seaborn, SciPy, Scikit learn, Kears, Neural Networks.
- Machine Learning:** Decision Tree, Linear Regression, Logistic Regression, K-Mean, Support Vector Machine
- Data Science and Analytical Techniques:** Statistical Analysis, Data Analysis, Data Manipulation, Data Visualization, Data cleansing, Problem-solving, Critical- Thinking, Model Testing and Training, and Model Validation.

## CERTIFICATION

### Azure Databricks & Spark Core for Data Engineers |(Python/SQL)

Aug.2022

**Python** | Basic, NumPy, Pandas, Matplotlib, seaborn, neural network and scikit learn

Aug.2020

**MS. Office** | Word, Excel, and PowerPoint

Apr.2013