

PROFESSIONAL SKILLS

- Machine Learning (Supervised and Unsupervised)
- Python (Pandas, NumPy, Matplotlib, seaborn)
- SQL (MySQL)
- Tableau (Data Visualization)
- Extract Transfer Load
- Hadoop (basic)
- Deep Learning (ANN, CNN)
- Statistics (Descriptive and inferential)
- Data Analysis
- Exploratory Data Analysis
- Data Manipulation
- Predictive Modeling

PROJECTS

IMAGE CLASSIFICATION – DEEPLARNING + AI (CONVOLUTIONAL NEURAL NETWORK)

OBJECTIVE - Optimize a CNN for image classification (dog vs. cat) using Deep Learning and AI. January 2024

- Conducted comprehensive **preprocessing** on a dataset of **8,000 images for training and 2,000 images for testing**, optimizing data through techniques such as **normalization and augmentation**.
- Engineered a **CNN with 2 convolutions, max pooling, flattening, and a single fully connected layer**, achieving an **80% accuracy** in distinguishing dog and cat images.

CARDIAC ARREST PREDICTION – PYTHON + MACHINELEARNING (CLUSTERING)

OBJECTIVE - Predict Cardiac Arrest using Python and Machine Learning Clustering techniques December 2023

- Applied **K-means clustering** to analyze patterns within the dataset.
- Visualized **hierarchical clustering** using **Scipy** for enhanced data structure understanding.
- Calculated and presented a **silhouette score (0.4718)** as an evaluation metric for **cluster** quality.

BREAST CANCER PREDICTION – PYTHON + MACHINELEARNING (LOGISTIC REGRESSION)

OBJECTIVE - Develop a precise breast cancer prediction model using Logistic Regression in Python November 2023

- Developed and fine-tuned a **Logistic Regression** model with **90%+ accuracy** for **breast cancer prediction**, distinguishing between benign (Class 2) and malignant (Class 4) cases.
- Implemented advanced algorithms, achieving a **92% precision score and 91% recall rate**, showcasing the model's ability to accurately identify malignant cases while minimizing false positives and done predictive modeling

EMPLOYEE SALARY PREDICTION – PYTHON + MACHINELEARNING (LINEAR REGRESSION)

OBJECTIVE - Predict employee salaries using Python and ML (Linear Regression) October 2023

- Addressed 95% of **null values** during data preprocessing, ensuring **data quality** and reliability for analysis.
- Divided the dataset meticulously into precise **training and test sets**, resulting in a substantial 15% accuracy improvement upon training a **linear regression** model and make a statistical Algorithm

EDUCATION

BACHELOR OF SCIENCE IN MATHEMATICS – Bhupal Nobles University – Udaipur, Rajasthan Percentage: 78%	June 2024
SENIOR SECONDARY EXAMINATION – Springdales Sr Sec School – (Rajasthan, Dungarpur, Sagwara) Percentage : 74.20%	June 2020
SECONDARY EXAMINATION – Springdales Sr Sec School – (Rajasthan, Dungarpur, Sagwara) Percentage : 77.33%	June 2018

CERTIFICATIONS

Data Science Pro – Fingertips (Ahmedabad,Gujarat, 380009) (6 – Months)

Machine Learning(A-Z Course) – Udemy