

Dharma Teja Rao Gandra  
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## Summary

Jr. Data Scientist with over 4 years' experience in the Field of Data science. Skilled Programmer with over 4 years of python programming. Experienced in solving real-world problems through the applications of machine learning and artificial intelligence. Ability to transform complex problems into well posed machine learning models. Ability to solve complex machine learning problems. Worked with high professional teams for the high valued projects and solved the complex business problems.

## EDUCATION

University of Dayton  
M.S., Computer Science

August 2021 - May 2023  
GPA: 3.5/4.0

University of Texas at Austin Certified.  
Postgraduation Diploma in Artificial Intelligence and machine learning

July 2020 – July 2021  
GPA: 3.9/4.0

Matrusri Engineering College | Osmania University.  
B.S., Computer Science

August 2015 - June 2019  
% - 70/100

## CERTIFICATIONS & TECHNICAL SKILLS

Certifications: Postgraduation Diploma in Artificial Intelligence and Machine Learning.

Programming: SQL, Python

Programming: Python (NumPy, Pandas, scikit-learn, keras, TensorFlow)

Visualization tools: Matplotlib, seaborn, plotly, PowerBI, Tableau,

Other Tools: Jupiter notebook, Ipython notebook

Machine learning: Descriptive statistics, Supervised learning, Unsupervised learning, Ensemble techniques, Neural networks, deep neural networks, Computer vision  
Deep neural networks.

Machine learning Algorithms: Linear regression, logistic regression, KNN, Naïve bayes, Clustering, Random Forest, Support Vector machines, PCA, Decision Trees, ADA boosting, Bagging, SMOTE, Lasso and Ridge Regression, K- Means clustering, Neural networks, Transfer learning.

## BUSINESS EXPERIENCE

Gainwell Technologies / DXC Technologies

Business Analyst & Jr. Data Scientist

Oct 2019 – August 2021

Seasoned Data science professional skilled in the use of the Machine learning and statistical techniques. Recent work in the field of Data science emphasizes model building with the use of machine learning techniques. Possesses string programming skills to implement supervised, unsupervised techniques from scratch using python programming language. Skilled in data preprocessing, exploratory data analysis, data modeling.

- Coordinated statistical data analysis, design, and information flow.
- Used Ensemble techniques to analyse and solve complex business problems.
- Applied statistical techniques to interpret key points from gathered data.
- Established frameworks for running Informative daily reports for clients.
- Build models for the medical reports using machine learning.
- Optimize Machine learning models for the better efficiency.
- Involved in Requirement analysis, Requirements management and communication.
- Implemented SDLC Methodologies like waterfall and agile.
- Business Design and Design specification documents – UML Concepts using MS vision
- Data Visualization and performance Metrics of the team.
- Managing team of the 7 people from requirements gathering to Deployment.
- Building Predictive Models.

## ACADEMIC PROJECTS

Artificial Intelligence and Machine Learning.

July 2020 – July 2021

- Pneumonia detection using Deep Learning (Computer Vision).  
Building a Deep learning Model using computer vision to detect pneumonia. We used Transfer learning to build and better optimize the models. Compared the Transfer learning models and choose better model which can perform better when it is deployed in the Realtime.
- Flowers Prediction using CNN.  
Dataset comprises of 12 images of 12 species of plants. Classifying the species of the plants using the computer vision (TensorFlow, keras).
- Prediction the strengths of high-performance concrete.  
This project involved feature exploration and selection to predict the strength of high-performance concrete. Used Regression models like Decision tree regressors to find out the most important features and predict the strength. Cross-validation techniques and Grid search were used to tune the parameters for best model performance.
- Classification of Silhouettes of vehicles.  
Classified vehicles into different types based on silhouettes which may be viewed from many angles. Used PCA in order to reduce dimensionality and SVM for classification.
- Diagnosing Parkinson's disease using Random Forest.  
This project involved using classification algorithms and Ensemble techniques to diagnose Parkinson's Disease (PD) using the patient voice recording data. Various models were used including Naive Bayes, Logistic Regression, SVM, Decision Tree, Random Forest etc. and comparison of accuracy across these models was done to finalise the model for prediction.
- Identifying potential customers for the loan.

Identified potential loan customers for Thera Bank using classification techniques. Compared models built with Logistic Regression and KNN algorithm in order to select the best performing one.

- **Analyze health information to make decisions for the insurance business.**

This project used Hypothesis Testing and Visualization to leverage customer's health information like smoking habits, bmi, age, and gender for checking statistical evidence to make valuable decisions of insurance business like charges for health insurance.