Dharma Teja Rao Gandra

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# EDUCATION

University of Dayton August 2021 - May 2023

M.S., Computer Science GPA: 3.5/4.0

University of Texas at Austin Certified. July 2020 – July 2021

Postgraduation Diploma in Artificial Intelligence and machine learning GPA: 3.9/4.0

Matrusri Engineering College | Osmania University. August 2015 - June 2019

B.S., Computer Science % - 70/100

# CERTIFICATIONS & TECHNICAL SKILLS

Certifications: Postgraduation Diploma in Artificial Intelligence and Machine Learning.

Programming: SQL, Python

Skills and Packages: Data Analysis, NumPy, Pandas, Matplotlib, Seaborn, Descriptive Statistics, Inferential Statistics, Supervised Learning, Unsupervised Learning, Ensemble Techniques, Feature Selection, Model Tuning, Neural Networks, Computer Vision using Neural Networks, Predictive Modeling, Deep Learning, Tableau, Power BI

# BUSINESS EXPERIENCE

Gainwell Technologies / DXC Technologies

Machine Learning Engineer Oct 2020 – August 2021

* 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.

Business Analyst Oct 2019 – Oct 2020

* 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.
* Building Predictive Models.
* Data Visualization and performance Metrics of the team.
* Managing team of the 7 people from requirements gathering to Deployment.

# 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.

Matrusri Engineering College

* Online Quiz System.
* Concealed Transmission using steganography.