

EDUCATION

Master of Professional Science - Data Science, GPA: 4.0

University of Maryland, Baltimore County (UMBC), Baltimore, MD

May 2023

Master of Technology - Computer Science and Engineering, GPA: 3.7

D.K.T.E. Textile and Engineering Institute, Ichalkaranji, INDIA

May 2019

Bachelor of Engineering – Computer Science and Engineering, GPA: 3.7

D.K.T.E. Textile and Engineering Institute, Ichalkaranji, INDIA

May 2017

SKILLS

Python

SQL

Linux

Cloud Infrastructure

Data Analysis

Time series prediction

Machine Learning

TensorFlow

AutoKeras

Tableau

Jupyter

GitHub

CERTIFICATION

- C2090-930 IBM SPSS Modeler Version 18(V3).
- Python Specialization (Retrieving, Processing and Visualizing Data), Coursera
- Fundamentals of Visualization with Tableau, Coursera

Dec 2019

Jun 2020

Jul 2020

EXPERIENCE

Research Assistant UMBC, MD (Aug 2021- Present)

- Developing a Deep Neural Network Architecture for emulating microphysics parameters, to reduce the computational time by replacing components in NASA Unified-Weather Research Forecasting model (NU-WRF) with Machine Learning (ML).
- Predicting precipitation using the most suitable ML model given by AutoKeras.

Senior Analyst Capgemini Technology Service LTD, INDIA (Mar 2018- Nov 2019)

- Maintained and administered computer networks and virtual environments in VMware and Microsoft Azure platform.
- Delivered in-depth training, imparting knowledge of best practices to the new recruits as Account Lead.
- Organized system infrastructure documentation and operating procedures, strengthening overall team performance.

PROJECTS

Analysis of Brewery Industry in the USA

Oct 2021

- Analysed brewery dataset by applying Exploratory Data Analysis (EDA) to get insights of the brewery industry in the United States. It will help individuals who want to start a brewery business, to identify profitable areas.

Optimal Number of Cluster Identification using Robust K-means Algorithm.

May 2019

- Developed a Robust K-means Algorithm to identify optimal numbers of clusters in protein sequences by removing noise clusters. Measured goodness of clusters using Silhouette Coefficient.

Automatic Fabric Defect Detection using GPU.

Apr 2017

- Created a prototype to detect the defect, when fabric comes from a production machine by capturing image and processing using GPU in real time environment.

PUBLICATIONS

- Patil S U, Nuli U A (2019), Optimal Number of Cluster Identification using Robust K-means Algorithm. International Research Journal of Engineering and Technology Vol.6.6-3637
- Patil S U, Nuli U A (2018), A Review of Clustering and Clustering Quality Measurement. International Research Computer Engineering in Research Trends Vol.5:12, 236.