Radha Sai Rupesh Ch.V.

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EDUCATION

Northeastern University, College of Engineering, Boston, MA **Expected May 2023**
Candidate for Master of Science in Data Analytics Engineering **GPA: 3.83/4.0**
Relevant Coursework: Machine Learning (ongoing), Computation and Visualization (ongoing), Foundation Data Analytics, Data Management and Database Design

LNM Institute of Information Technology, Jaipur, India **May 2021**
Bachelor of Technology, Computer Science
Relevant Coursework: Image Processing, Artificial Intelligence, NLP, Deep Learning, Data Mining, Big Data Analytics

TECHNICAL SKILLS

Programming: Python (NumPy, Pandas, Matplotlib, Scikit-learn, SciPy, Statsmodels, Seaborn, OpenCV, NLTK, TensorFlow, Keras), R (ggplot2, dplyr, tidyr), SQL, C (intermediate knowledge)
Databases & Cloud Technologies: MySQL, Microsoft SQL Server Studio, Oracle Database, Google Cloud Platform, IBM Cloud
Machine Learning & Statistics: Regression, Classification, Data Mining, Clustering, Dimensionality Reduction, Time Series Analysis, Statistical Analysis, Hypothesis Testing, Predictive Modeling
Tools & Technologies: Tableau, PowerBI, MS Excel, MS Word, GitHub, Jupyter Notebook, Google Colab, R Studio

INTERNSHIP EXPERIENCE

NeenOpal Intelligent Solutions Private Ltd **Bengaluru, India**
Data Science Intern **Nov 2020–April 2021**

- Analyzed the key transactions and their attributes involved, to comprehend the business implications.
- Reviewed, performed sanity checks and conducted Exploratory Data Analysis (EDA) on 15+ data sets.
- Periodically forecasted figures of gold loans using XGBoost, with an accuracy of 83%, for a major Sri Lankan NBFC.
- Built interactive Tableau dashboards to showcase the results.

RESEARCH WORK

Exo-sir: An epidemiological model to analyze the impact of exogenous infection of COVID-19 in India **Apr 2020–July 2020**

- Conducted a research work in collaboration with researchers from the AI Research Institute at University of South Carolina, to study the spread of COVID-19 infections in India using the Exo-SIR model that was proposed.
- **Accepted at ACM KDD'20 Health Day (AI for COVID)**

Event detection in Twitter **Jan 2020–Apr 2020**

- Conducted a study to evaluate the performance of the proposed method, to detect events in Twitter using the parameter – average common friends in a social synchrony, against the existing state of the art method.
- **Published at WebSci'21: 13th ACM Web Science Conference 2021**

PROJECTS

Facial Expression Recognition **Feb 2022**

- Built and trained a CNN using Keras to recognize the seven universal human facial expressions with 69% accuracy.
- Deployed the model to a web interface with Flask and applied it to real time video streams.

Toxic Comment Classification **Jan 2022**

- Used convolutions as Feature Extractors for text.
- Applied Word Embedding and performed Binary Text Classification of Wikipedia comments with an accuracy of 85%.

Database for a dental clinic **Dec 2021**

- Developed a database for a small-scale dental clinic, according to the agreed upon business rules, on MS SQL server with 20+ tables and incorporated an appointment scheduling logic based on available time slots.
- Connected the DB with a crude webpage using Wamp Server to interactively access and modify it.

Clustering of Synthetic and Real-World Data **Nov 2021**

- Implemented k-means and hierarchical clustering on synthetic and world indicators datasets.
- Evaluated the performance of clustering algorithms using both internal & external validation techniques and visualized the clusters with scatterplots.

Image Morphing **Jan 2021**

- Generated the intermediate frames that result from Morphing two images using Affine Transformation.