AYYAPPA SUMANTH BHUMA

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EDUCATION

Syracuse University   **Syracuse, NY**

Master of Science   *August 2021 – December 2022*

Major in Applied Data Science, Minor in Language track

Relevant course work: Natural Language Processing, Text Mining, Quant Reasoning, Applied Machine Learning, Applied Deep Learning, Business Analytics, Financial Analytics, Big Data Analytics, Database Management, Data Science Project Management

Indian Institute of Technology   **Jodhpur, India**

Bachelor of Technology   *July 2015 - May 2019*

Major in Computer Science and Engineering

Relevant course work: Data Structures and Algorithms, Algorithm Design and Analysis, Operating Systems, Data Communication, Computer Organization and Architecture, Software Engineering, Artificial Intelligence

EXPERIENCE

Coder's Data   **Cheyenne, WY**

Data Analyst – Internship   *July 2022 - December 2022*

- Developing and implementing data analyses, data collection systems and other strategies that optimize statistical efficiency and quality
- Working in the growth team, created metrics for several funnel and deployed dashboards to track them
- Collaborated with product team in analyzing performance
- Been a part of building marketing metrics pipeline to analyze campaign success
- Automated several tasks using Airflow

Tech Mahindra   **Hyderabad, India**

Data Scientist   *July 2019 - August 2021*

- Utilized python backend frameworks including flask and open-API to create APIs for various Speech and NLP models; employedRabbitMQ and Python's Celery in building the APIs
- Familiarized with Docker and installed several docker images; managed several docker containers using docker compose files
- Performed EDA on text data, generated data visualizations using R, Python and created dashboards using tools like Tableau
- Utilized various web scraping techniques to extract and organize audio and text data; employed alignment techniques in python and collected speech data of over 10 Indian languages
- Delivered a Text Normalization model for a Text to Speech (TTS) system; Leveraged Google's Sparrowhawk in building model
- Researched on telugu language text (native Indian language) in identifying use and effect of out of vocabulary (OOV) words in a native language
- Extracted domain- and location-specific information from a database of news items operating PostgreSQL's full text search.

PROJECTS

- Constructed a classification system to detect fake news from a list of news articles; Built Bidirectional LSTM and attention-based LSTM models for the classification
- Studied on online processing of large amount of data using Apache storm (batch processing vs stream processing)
- Researched on Convolution Neural Networks (VGG16 in particular) in order to classify multiple variables of image data at the same time and built a multi label binary classification model
- Developed a database in Azure SQL for higher-level supply chain management and designed an Android app to manage the database using Azure's Power Apps platform

SKILLS

- Analytics: Descriptive and Inferential Statistics, Hypothesis Testing, Exploratory Data Analysis (EDA), Feature Selection, Text Mining, Web Scraping, Statistical tests, Model Evaluation Methods (F1, ROC, Precision-Recall), Bigdata (HDFS, Map-Reduce, Apache Spark)
- Machine Learning: Regressions, Decision Trees, Clustering, Random Forests, Support Vector Machines (SVM), K-Nearest Neighbours (KNN), Bayesian Methods, Natural Language Processing (NLP), Deep Learning (CNN, RNN, LSTM, Attention based models (BERT))
- Tools and Frameworks: Python (NumPy, Pandas, Matplotlib, sci-kit, SciPy, NLTK, TensorFlow, Keras, Pyspark), R, C++, Tableau, Flask, Celery, Docker

EXTRA CURRICULAR ACTIVITIES

- Acted as the president of the Association for Computing Machinery (ACM), a student body at Syracuse University, where I planned events and lectures attended by tech industry professionals
- Volleyball: played in University Club Team (2015-2018)
- Functioned as a college festival's technical head and organized several technical workshops and tech events