Venkata Sai Muktevi

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EDUCATION

M. S. in Data Science, University of Washington - *Seattle, WA* (Expected) May 2022

B. E. Computer Science, M. S. Ramaiah Institute of Technology - *Bangalore, India* Graduated July 2019

Certifications - Machine Learning Course by Stanford University (Coursera), Business Analytics & Data Mining Modeling Using R (NPTEL), AWS Solutions Architect Associate 2020 (Udemy), Analysis of Algorithms (NPTEL).

Relevant Courses – *Statistics and Probability (DATA 556), *Data Visualization for Data Scientists (DATA 511), *Statistical Machine Learning for Data Science (Spring - DATA 558), Machine Learning (CSE11), Artificial Intelligence (CSE02), Introduction to Deep Learning (CSE23)

SKILLS

- **Proficient**
  - Programming – Python : Numpy, Pandas, Scikit-Learn, Keras, NLTK, Matplotlib, Plotly, Seaborn, Mapbox GL API, PyTesseract and Beautiful Soup. C/C++, R, MATLAB.
  - Oracle PL-SQL, MongoDB, Angular 2+, Git, Web Development [MEAN] stack
- **Familiar –** Tensorflow, AWS Cloud-Based Solutions, Web Development [Java + Spring] stack, Redux Pattern (NgRx).

PROFESSIONAL EXPERIENCE

Software Developer *at* ***Proxim Systems****, Schaumburg, IL* May 2020 to Present

- Developed microservices using Java EE (Maven projects) with Oracle Server and MyBatis.
- Built web portal components using Angular JS.

Cognitive Data Scientist and Junior Full Stack Developer *at* ***IBM****, Bangalore, India* Jul 2019 to Jan 2020

IBM Finance & Accounting Application for R2R, Cognitive Process Systems and Cognitive Business Data Science Teams

- Structured and implemented a **cross-database validation system** that monitored the consistency of certain critical data across various MongoDB and Cassandra databases in the application pipeline using Python.
- **Automated business tasks** using Python scripts removing the need for manual transformation and **pre-processing** of client data.
- Developed UI for multiple modules and integrated services using Angular 8, NgRx, Angular Material and Node.Js.
- Worked with various UI components and implemented **Data Visualization**, RESTful API integration, Routing and Reactive Forms.

Python Machine Learning Developer, Intern *at* ***NTWIST****, a Canadian DeepTech Startup, IIIT Hyderabad* Feb to May 2019

Recommender System and Digital Twin, HPAL Analytics Team

- Established a final product that made **better operational decisions**, reduced maintenance costs, **increased profits 42%** of the time and brought 17% of total operational hours back into operating limits.
- **Analyzed** and **processed soft sensors' data** and lab data from a High-Pressure Acid Leaching (HPAL) plant for Ni and Co metal extraction.
- Formulated models using **Deep Belief Networks, RBMs**, Feed-Forward Networks, PCR and PLSR with various Error Metrics.
- Programmed the **necessary python modules** and collaborated in their integration with the final application.

Miscellaneous Projects Jun 2017 to Jan 2019

LyriQuest, Senior Year Project *(NLTK-VADER, Matplotlib, Kivy, Keras, BeautifulSoup, Firebase, IBM Watson Tone Analyzer API)*

- Piloted and developed an end-to-end application that performs **song recognition**, **sentiment analysis** of lyrics, personalized user playlist experience, and **song recommendation**.
- Implemented a **modified kNN**, various **NLP techniques**, Web Crawling, helpful APIs and used multiple python libraries.

Data Analysis of Road Traffic Accidents and Reducing Rate of Accidents on Roads, Minor Thesis *(Python and R)*

- Analyzed data collected about factors affecting road traffic and accidents in different regions of the world.
- Obtained enlightening **analytical inferences** from data based on analysis **using machine learning algorithms** like Decision Trees, Random Forest, K-means clustering, SVM classification, PCA and regression analysis.
- Performed **time series analysis** to observe **trends in visualizations** of critical factors involved in road accidents.
- Presented as a **minor thesis paper** at the 2018 3rd International Conference on Computational Systems and Information Technology for Sustainable Solutions, which was published by IEEE.

EXTRACURRICULARS AND ACHIEVEMENTS

- **UW COVID-19 Hackathon 2020** - Won the **Best Interactive Data Visualization and Dashboard** implementation for "How did COVID Really Impacted the World?" and analysis on government policies issued to curb the rise of COVID cases in different countries. Used dataset published by Oxford.
- **Computer Science Department Project Exhibition 2019 -** Won **Best Project Award** for LyriQuest.
- **Leader of TriNationTroupe (TNT)** - Leader and Coordinator of Western Dance Team (TNT) for 2 years, raked up to **140,000 INR in prize money**. Rebranded, convinced and combined 3 legacy teams. Won in over **15 intercollegiate competitions** across the Greater Bangalore metropolitan area.