Sibi Vishtan Thirukonda

Data Science grad @ Northeastern, Open to work

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EDUCATION

Northeastern University, Master of Science in Data Science — *Boston, MA*
Khoury College of Computer sciences, Courses: Machine Learning, Natural Language Processing, Time Series — *Expected May 2025*

Anna University, Bachelor of Engineering in Computer Science and Engineering — *Madurai, India*
K.L.N College of Engineering, Courses: Artificial Intelligence, Operating Systems, Database Management, Distributed Systems — *2018-2022*

SKILLS

Languages: Python, R, C++, SQL, MATLAB, SAS
Machine Learning/Deep learning: SVM, CNN, NLP, LLMs, RNN, DTW, ARIMA
Data Analytics: Pandas, NumPy, Selenium, Geoplotlib, Matplotlib, seaborn
Database Tools: MySQL, MongoDB, Cassandra, UML
Cloud: IBM Cloud, Google Cloud, Azure.
Libraries: Spark, PyTorch, TensorFlow, Scikit-learn, keras, Caret, Shiny, Densenet, NLTK, spaCy, ggplot3

EXPERIENCE

Khoury College of Computer Sciences — *Boston, MA*
Teaching Assistant for Information Visualization and Presentation — *Sep 2023 – Present*
- Instructed and guided 50+ students to master various visualization tools (Tableau, Plotly, Altair, Geoplotlib, seaborn, matplotlib, and ArcGIS), leading to the creation of over 200 meaningful data representations.
- Fostered a collaborative learning culture among students during class activities, resulting in an increase in peer collaboration and sharing.
- Integrated real-world scenarios to demonstrate the practical impact of effective information visualization on decision-making processes.

Lennox International — *Chennai, India*
SDE 1 (Controls Engineering) — *Aug 2022-Dec 2022*
- Worked on integrating Alexa and Apple HomeKit services with the next generation of Thermostats.
- Implemented new features enabling HVAC control through smartwatches and their complications.
- Automated entire software modules for compilation using CMake.
- Hands-on experience with internal software and alert messaging API.
- Contributed to Linux Subsystems on Windows (WSL), RTOS, STMP32DM microcontrollers.

MLGround — *Bangalore, India*
Machine Learning Intern (Data Science Team) — *Jan 2022-Apr 2022*
- Conducted statistical modeling to analyze customer churn patterns, identifying key factors influencing retention. Enabled the bank to implement targeted strategies, resulting in a reduction in churn.
- Applied clustering techniques to segment the bank's customer base based on financial behavior, leading to personalized product offerings and a increase in customer satisfaction.
- Conducted hypothesis testing and A/B testing to evaluate the effectiveness of various pricing strategies.

PROJECTS

Advanced Named Entity Recognition with Voice Input
- Achieved a 95% accuracy from a named entity corpus, Implemented a dynamic entity expansion mechanism, enabling the model to recognize and adapt to emerging entities in real-time.
- Showcased state-of-the-art performance in predicting Named Entity Recognition using transformers LLM.

Dynamic Time Warping Integration with DL for Multivariate financial time series
- Achieved a 93% accuracy in predicting chaotic financial time series behavior, surpassing baseline models, through the application of Dynamic Time Warping with Deep Learning.
- Demonstrated state-of-the-art performance in forecasting future values of financial time series S&P500 , utilizing GPU-accelerated PyTorch and TensorFlow for efficient model training and analysis.

Automation System to Limit COVID - 19 Using Face Mask Detection
- Developed a ***state-of-the-art Computer Vision*** Face Mask Detection system. To detect face masks in static images and in real-time streams.
- Utilized GPU accelerated Computer Vision and industry-leading frameworks, including OpenCV, TensorFlow, Caffe-based face detector, Keras, MobileNetV2, and HAAR CASCADE algorithms, Leveraged the power of these frameworks to implement robust image processing.
- Received the **Best Project award for the 2018-2022 batch at KLN College of Engineering**.

ACHIEVEMENTS AND PUBLICATIONS
- **Best Project Winner 2018-2022 Batch**: An automated system to limit COVID-19 using face mask detection.
- <u>**Topped as Runner-up:**</u> 72 Hour Hackathon where Kurger app was developed and recognized by Information and Technology.
- <u>**IIPC Funded Competition Winner:**</u> Won for the best project for Traffic Clearance for Ambulance and more innovative.
- <u>**Published Journal**</u> under <u>CoinsBench</u>, Chinese Auction using <u>Solidity EVMs</u>.
- **Worked as Research Assistant** for a Professor at Anna University helping the Data Sciences of the Patent.
- <u>**Published Paper**</u> DTW integration with deep learning alignment to Financial time series
- <u>**Published Paper**</u> Advanced NER system with Voice input