Sibi Vishtan Thirukonda

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Data Science grad @ Northeastern, Open to work

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EDUCATION

Northeastern University, M.S in Data Science *Boston, MA*
Khoury College of Computer sciences, Courses: Machine Learning, Natural Language Processing NLP, Time Series *2023-May 2025*

Anna University, B.E 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

Computer Science: Python, R, C++, SQL
Machine Learning/Deep learning: SVM, CNN, DenseNet, Time Series, NLP, SLMs, LLMs, RNN, DTW
Activation Functions: ReLU, Softmax, PAF, tanh, Swish, sigmoid.
Data Analytics: Pandas, NumPy, Selenium, Geoplotlib, Matplotlib
Database Tools: MySQL, MongoDB, Cassandra, UML, Entity Frameworks.
Cloud: IBM Cloud, Google Cloud, Azure.
Libraries: Spark, PyTorch, TensorFlow, Scikit-learn, keras, Caret, Shiny, Densenet, NLTK, spaCy

EXPERIENCE

Khoury College of Computer Sciences *Boston, MA*
Teaching Assistant for Information Visualization and Presentation *Sep 2023 – Present*
- Guided over 50 students in mastering visualization tools like Tableau, Plotly, Altair, Geoplotlib, seaborn, matplotlib, and ArcGIS aiding them in creating more than 200 visually compelling data representations.
- Encouraged collaboration among students during in-class activities, fostering a culture of peer learning and knowledge sharing, resulting in a 80% increase in student collaboration and knowledge exchange compared to previous terms.
- Integrated real-world scenarios to showcase the impact of effective information visualization on decision-making and problem-solving, leading to better improvement in students' understanding of the practical applications of data visualization.

Lennox International *Chennai, India*
Individual Contributor 1 (Controls Engineering) *Aug 2022-Dec 2022*
- **Alexa and Apple HomeKit Services:** Collaborated with cross functional team to integrate **Alexa and Apple HomeKit services** into next-generation thermostats, resulting in a *30% increase* in user engagement and a *20% decrease* in support requests.
- **Apple Watch HomeKit:** Initiated and led the development and implementation of groundbreaking features for controlling HVAC systems via Apple Watch and thecomplications, leveraging the power of Apple HomeKit APIs.
- **HVAC Stability Protocols**: Provided HVAC stability protocols using data visualization, resulting in a *15% increase* in system stability.
- Managed and maintained the internal software and alert messaging API with exceptional reliability, ensuring an impressive 99.9% uptime.

MLGround *Bangalore, India*
Machine Learning Intern (Data Science Team) *Jan 2022-Apr 2022*
- Conducted statistical modeling to analyze customer churn patterns and identify key factors influencing customer retention, enabling the bank to implement targeted retention strategies and reduce churn by 15%.
- Developed a model using time series analysis to forecast market trends and fluctuations, providing valuable risk management decisions.
- Applied clustering techniques to segment the bank's customer base into distinct groups based on their financial behavior and needs, leading to the creation of personalized product offerings and a 10% increase in customer satisfaction and conducted hypothesis testing and A/B testing to evaluate the effectiveness of different pricing strategies.

PROJECTS

Named Entity Recognition *Nov 2023 –Present*
- Achieved an accuracy rate of 93% of Named entity recognition from named entity corpus, using SGD, NB and BERT models.
- Showcased *state-of-the-art performance in predicting Named Entity Recognition using transformers LLM.*

Image Generation AI/ML model (CIFAR 10) view *Jan 2023 – Apr 2023*
- Achieved **88%** accuracy after approximately **400 epochs**, demonstrating expertise in hyperparameter tuning, model optimization and GPU acceleration for *CNN*. Further improved the model's accuracy to over **98%** using the Densenet Convolution technique.
- Showcased ability to classify images into 10 different classes, handle large datasets and leverage advanced techniques to achieve *state-of-the-art performance in image classification and generation*.

Automation System to Limit COVID - 19 Using Face Mask Detection view *Jan 2022 – Jul 2022*
- 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.

ACHIEVEMENTS AND PUBLICATIONS

- **Best Project Winner 2018-2022 Batch**: An automated system to limit COVID-19 using face mask detection.
- **Topped as Runner-up:** 72 Hour Hackathon by Information and Technology Department.
- **Published Journal** under TowardsDataScience community, for Traffic clearance for ambulance and NFT based Attendance systems.
- **IIPC Funded Competition Winner:** Won for the best project for Traffic Clearance for Ambulance and more innovative.
- **Published Journal** under CoinsBench, Chinese Auction using Solidity EVMs.
- **Worked as Research Assistant** for a Professor at Anna University helping the Data Sciences of the Patent.