

Suhas Maddali

Ph: (617)-671-5751

Mail: suhas.maddali.edu@gmail.com

[GitHub](#) | [LinkedIn](#) | [Medium](#)

TECHNICAL SKILLS

Programming Languages:	Python, R, SQL, C++, Java, C, MATLAB, MongoDB,
Libraries:	Sklearn, NumPy, Keras, TensorFlow, Pytorch, Seaborn, TensorFlow Extended (TFX)
Tools Used:	Docker, Kubernetes, AWS, Google Cloud, Spark, Rapids, Git, Tableau, Scala, Hadoop
Certifications:	Machine Learning by Stanford University , Deep Learning Specialization by Andrew Ng , Machine Learning Engineering for Production (MLOps) Specialization , Data Science and Machine Learning Bootcamp with R

PROFESSIONAL EXPERIENCE

Data Scientist Intern NVIDIA, Santa Clara, USA	May 2022 – Aug. 2022
<ul style="list-style-type: none">Built robust machine learning and deep learning models for predicting the demand and supply constraints.Collaborated with many data scientists and machine learning engineers to build an end-to-end machine learning system that has stages from data extraction to deployment of models along with monitoring of the output.Worked exclusively on building models that are highly explainable to the users and the business before taking decisions.Documented and highlighted the weaknesses and strengths of various state-of-the-art deep learning and machine learning models along with their practical implementation to the business.Reduced the Mean Absolute Percentage Error (MAPE) by 15% as compared to state-of-the-art models.	
Research Assistant Khoury College of Computer Sciences, Boston, USA	Jan. 2022 – May 2022
<ul style="list-style-type: none">Handled Neural Networks (NNs) for systems and analyzed their behavior and verified them for use.Implemented state-of-the-art NN-verification tools and built certified neural networks for computer systems.	
Graduate Teaching Assistant Khoury College of Computer Sciences, Boston, USA	Dec. 2021 – May 2022
<ul style="list-style-type: none">Assisted in coordinating college-wide staff meetings and assemblies for students.Supported each student's social and emotional development and encouraged them to pursue their curiosity and interests.	
Data Scientist Solbots Technologies Private Limited, Hyderabad, India	Jan. 2018 – Aug. 2020
<ul style="list-style-type: none">Developed Statistical Analysis and Statistical Modelling using Python to understand the grip of bionic hand.Executed computer vision algorithms for image segmentation and recognition using OpenCV and Matplotlib.Oversaw my team in applying data analysis, data engineering and data mining methods for computer vision.Built a fully functional application that extracts information from an image and classifies the objects present in the scene.	

PROJECTS

Washington Bike Demand Predictor

- Performed **Exploratory Data Analysis** in **Python** and innovatively added 8 new features to large, complex dataset for prediction of bike demand and explored the features.
- Employed Machine Learning Models such as Deep Neural Networks, K Nearest Neighbors, PLS Regression, Decision Tree, SVM, Clustering, Gradient Boosting Regression (Xgboost) and Logistic Regression.

Wheat Disease Detection Using CNNs and Transfer Learning

- Programmed with networks such as **VGG19**, **Xception**, **InceptionV3** and **ResNet152** to predict the diseases in wheat.
- Achieved an accuracy of **97 percent** on the cross-validation data of images of wheat.

Predicting the Readability of Text Using Machine Learning

- Analyzed text embedding such as **BOW**, **TF-IDF**, **Word2Vec**, **BERT** and **Roberta** for text analysis.
- Achieved a **mean absolute error** of 27 for prediction of readability of text.

Twitter Sentiment Analysis

- Analyzed the sentiment of **27481** data text points and made predictions on **3000** test points.
- Performed **text encoding**, **parsing**, **semantic analysis**, **discourse integration** and **pragmatic analysis**.

Car Prices Prediction and Analysis

- Predicted car prices by considering factors such as Horsepower, MPG, Vehicle Size, Transmission and Popularity.
- Accomplished a **mean absolute error (MAE)** of 3327 for the test data.

EDUCATION

Northeastern University , Boston, MA	Sept. 2021 – May 2023
Khoury College of Computer Sciences	
<i>Master of Science in Data Science</i>	
Expert In: Supervised Machine Learning, Natural Language Processing (NLP), Computer Vision, Unsupervised Machine Learning	
Arizona State University , Tempe, AZ	Sept. 2020 - May 2021
<i>Master of Science in Software Engineering</i>	