

Suhas Maddali
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[GitHub](#) | [LinkedIn](#) | [Medium](#)
[YouTube](#)

EDUCATION

Northeastern University , Boston, MA Khoury College of Computer Sciences Candidate for <i>Master of Science in Data Science</i> Related Courses: Supervised Machine Learning Theory, Unsupervised Machine Learning, Natural Language Processing (NLP) VNR Vignana Jyothi Institute of Technology , Hyderabad, India <i>Bachelor of Technology in Electronics and Communication Engineering</i>	Sept. 2021 - Present June 2015 - May 2019
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TECHNICAL KNOWLEDGE

Programming Languages:	Python, R, SQL, Java, C, Matlab, MongoDB
Libraries:	Sklearn, SciPy, NumPy, Pandas, Keras, Tensorflow, Xgboost, Pytorch, Seaborn, Matplotlib
Tools Used:	Git, HTML5, CSS3, Tableau, AWS, Scala, Spark, Bootstrap, Hadoop, Office, PowerPoint
Certifications:	Machine Learning by Stanford University, Python, Deep Learning Specialization by Andrew Ng, Data Science Bootcamp with R, Complete Tensorflow 2 and Keras

PROFESSIONAL EXPERIENCE

Data Scientist 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 models by Amazon and SAP.	
Research Assistant Khoury College of Computer Sciences , Boston, USA	Jan. 2022 - Present
<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 – Present
<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 - Dec. 2018
<ul style="list-style-type: none">Developed Statistical Analysis and Statistical Modelling Using Python to understand 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	Feb. 2021 - Apr.2021
<ul style="list-style-type: none">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. Link	
Wheat Disease Detection Using CNNs and Transfer Learning	Dec.2021 – Jan.2022
<ul style="list-style-type: none">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. Link	
Predicting the Readability of Text Using Machine Learning	Sep.2020 – Dec.2020
<ul style="list-style-type: none">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. Link	
Twitter Sentiment Analysis	May.2020 – Aug.2020
<ul style="list-style-type: none">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. Link	
Car Prices Prediction and Analysis	Jan.2020 – Feb.2020
<ul style="list-style-type: none">Predicted car prices by considering factors such as Horse Power, MPG, Vehicle Size, Transmission and Popularity.Accomplished a mean absolute error (MAE) of 3327 for the test data. Link	