

# Suhas Maddali

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

## EDUCATION

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

## TECHNICAL KNOWLEDGE

<b>Programming Languages:</b>	Python, R, SQL, Java, C, Matlab, MongoDB
<b>Libraries:</b>	Sklearn, SciPy, Numpy, Pandas, Keras, Tensorflow, Xgboost, Pytorch, Seaborn, Matplotlib
<b>Tools Used:</b>	Git, HTML5, CSS3, Tableau, AWS, Scala, Spark, Bootstrap, Hadoop, Office, Powerpoint
<b>Operating Systems:</b>	Windows, MacOS, Linux
<b>Certifications:</b>	Machine Learning by Stanford University, Python, Deep Learning Specialization by Andrew Ng, Data Science Bootcamp with R, Complete Tensorflow 2 and Keras

## PROFESSIONAL EXPERIENCE

<b>Data Scientist Intern   NVIDIA</b> , Santa Clara, USA	<b>May. 2022 – Aug. 2022</b>
<ul style="list-style-type: none"><li>Built robust machine learning and deep learning models for time series problem of predicting the demand and supply constraints.</li><li>Worked exclusively on building explainable models and ensured that the ML model predictions are explained clearly to the stakeholders and the business.</li><li>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.</li></ul>	
<b>Research Assistant   Khoury College of Computer Sciences</b> , Boston, USA	<b>Jan. 2022 - Present</b>
<ul style="list-style-type: none"><li>Handled <b>Neural Networks (NNs)</b> for systems and analyzed their behavior and verified them for use.</li><li>Initiated the input and output constraints that characterize the Neural Network (NN) behaviors.</li><li>Implemented state-of-the-art <b>NN-verification</b> tools and built certified neural networks for computer systems.</li></ul>	
<b>Graduate Teaching Assistant   Khoury College of Computer Sciences</b> , Boston, USA	<b>Dec. 2021 – Present</b>
<ul style="list-style-type: none"><li>Regularly provided feedback to students and fostered an environment of open communication and interest.</li><li>Assisted in coordinating college-wide <b>staff meetings</b> and <b>assemblies</b> for students.</li><li>Supported each student's <b>social</b> and <b>emotional</b> development and encouraged them to pursue their curiosity and interests.</li></ul>	
<b>Data Scientist   Solbots Technologies Private Limited</b> , Hyderabad, India	<b>Jan. 2018 - Dec. 2018</b>
<ul style="list-style-type: none"><li>Developed <b>Statistical Analysis</b> and <b>Statistical Modelling</b> Using Python to understand grip of bionic hand.</li><li>Executed computer vision algorithms for image segmentation and recognition using <b>OpenCV</b> and <b>Matplotlib</b>.</li><li>Oversaw my team in applying data analysis, data engineering and data mining methods for computer vision.</li></ul>	

## PROJECTS

<b>Washington Bike Demand Predictor</b>	<b>Feb. 2021 - Apr.2021</b>
<ul style="list-style-type: none"><li>Performed <b>Exploratory Data Analysis</b> in <b>Python</b> and innovatively added 8 new features to large, complex dataset for prediction of bike demand and explored the features.</li><li>Employed Machine Learning Models such as <b>Deep Neural Networks</b>, K Nearest Neighbors, PLS Regression, Decision Tree, SVM, Clustering, Gradient Boosting Regression (Xgboost) and Logistic Regression. <a href="#">Link</a></li></ul>	
<b>Wheat Disease Detection Using CNNs and Transfer Learning</b>	<b>Dec.2021 – Jan.2022</b>
<ul style="list-style-type: none"><li>Programmed with networks such as <b>VGG19</b>, <b>Xception</b>, <b>InceptionV3</b> and <b>ResNet152</b> to predict the diseases in wheat.</li><li>Achieved an accuracy of <b>97 percent</b> on the cross-validation data of images of wheat. <a href="#">Link</a></li></ul>	
<b>Predicting the Readability of Text Using Machine Learning</b>	<b>Sep.2020 – Dec.2020</b>
<ul style="list-style-type: none"><li>Analyzed text embedding such as <b>BOW</b>, <b>TF-IDF</b>, <b>Word2Vec</b>, <b>BERT</b> and <b>Roberta</b> for text analysis.</li><li>Achieved a <b>mean absolute error</b> of 27 for prediction of readability of text. <a href="#">Link</a></li></ul>	
<b>Twitter Sentiment Analysis</b>	<b>May.2020 – Aug.2020</b>
<ul style="list-style-type: none"><li>Analyzed the sentiment of <b>27481</b> data text points and made predictions on <b>3000</b> test points.</li><li>Performed <b>text encoding</b>, <b>parsing</b>, <b>semantic analysis</b>, <b>discourse integration</b> and <b>pragmatic analysis</b>. <a href="#">Link</a></li></ul>	
<b>Car Prices Prediction and Analysis</b>	<b>Jan.2020 – Feb.2020</b>
<ul style="list-style-type: none"><li>Predicted car prices by considering factors such as Horse Power, MPG, Vehicle Size, Transmission and Popularity.</li><li>Accomplished a <b>mean absolute error (MAE)</b> of <b>3327</b> for the test data. <a href="#">Link</a></li></ul>	