# Saidarao Chirumamilla

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# CORE COMPETENCIES

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| * **Programming:** Python, R, C++, Unix, Java, HTML, CSS, Java Script. |
| * **Big Data Technologies and Databases:** Hadoop**,** Spark, MapReduce, MYSQL, NoSQL (MongoDB). * **Libraries:** NumPy, Pandas, NLTK, Matplotlib, SciPy, Plotly. * **Frameworks:** Kera’s, TensorFlow, Sci-kit Learn**,** PyTorch, Angular. * **Analytical Techniques**: Regression, Classification, Data Mining, Neural Networks. * **Tools:** Jupyter Notebook, MS Excel, Tableau, Eclipse IDE, Git, Docker. * **Functional Skills:** Data Analysis, Data Ingestion, Data Mining, Data Modeling, Data Visualization, Machine Learning, Deep Learning, Predictive Modelling, Statistical Modeling and Project Management. |

**EDUCATION**

**Georgia State University Atlanta, GA**

Master of Science in Computer Science (GPA-3.65/4) Jan 2020 – August 2021

# R.V.R&J.C College of Engineering. Guntur, India

Bachelor of Technology (GPA-8.69/10) May 2019

# PROFESSIONAL EXPERIENCE

**Rares Atlanta, GA**

**Data Science Intern** Jan 2021 – May-2021

* Web scrapping the data from eBay, StockX.
* Built a Natural Language Processing model to predict the price of the sneakers based on the description using LSTM
* Deployed model using Flask.
* Working on network analysis to identify the potential customers and send the promotions using Python.
* Retrieving the data from AWS Cloud to get the latest synced contacts of the users and performed preprocessing on the phone numbers, emails to produce a detailed list of contacts.

**Georgia State University Atlanta, GA**

**Graduate Teaching Assistant** Jan 2020 – April 2021

* Maintaining detailed and thorough documentation regarding lesson plans and individual student performance against the goals of those plans.
* Assisting Professor with coursework, grading, assignments, quizzes, projects.
* Holding weekly ofﬁce hours to provide tutoring to students in need.

**Student Assistant.** May 2020 – July 2020

* Embedded learning management system on the website and coding, design, layout of a website
* Assisted with the enactment of coding lessons to students. Editing website content to ensure user-friendliness for teachers, students, and parents.
* Assisted with technical support before and during the programs and events.

# ACADEMIC PROJECTS

**Customer Segmentation (Python, NumPy, Pandas, Matplotlib, Sci-kit Learn, Segmentation):**

* Conducted exploratory data analysis, produced data quality report, data preprocessing and created a clustering model using Python to analyze different groups of customers using K-means, gaussian clustering.
* Evaluated the model using Silhouette Score and preformed hyperparameter tunning.

# Emotion Analysis – The Companion (Python, NumPy, Pandas, Sci-kit Learn, NLTK, Natural Language Processing):

* Performed text cleaning, classified Facebook posts into 5 different emotions using support vector machine, multinomial logistic regression, LSTM, Stochastic Gradient Descent classifier and evaluate model using Precision, Recall and F1 score

# Grass Detector (Python, NumPy, Pandas, Plotly, TensorFlow, Computer Vision):

* Created dataset from scratch using web scraping and capturing images from garden.
* Annotated every image and built object detection model using single shot multi box detector (SSD), you only look once (YOLO) algorithms. Evaluated using mean average precision(mAP).

# Covid-19 and pneumonia detector using CNN (Python, NumPy, Matplotlib, Pandas, TensorFlow, OpenCV):

* Processed and worked with high dimensional image data. Conducted Experiments with different CNN architectures (AlexNet, VGG16, ResNet, MobileNet, Inception). Deployed CNN model with accuracy 98% using flask and Heroku