# Venkata Subba Raju Nadimpalli

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## ABOUT

Currently a Boston University graduate student with multiple internships and project experience in Machine Learning, Data Science and Analytics field. Very eager to learn and can quickly adapt to different work environments.

## EXPERIENCE

**Machine Learning Intern**, Schneider Electric *May 2020 - Aug 2020*

- Enhanced the company's experience in detecting their product's images by fine-tuning and developing a custom Machine Learning model with 96% accuracy using GANs and CNN.
- Gave rise to a Product Classifier using Tesseract, PyOCR with the base network as Mobile Net V2. Furthermore, integrated this model into an end-to-end Android Application.

**Data Science Intern**, Pivotal Soft *May 2019 - Aug 2019*

- Engaged with mentors at the company to gain extensive knowledge and hands on experience in Data Science.
- Built a model for company's client to predict key point positions on face images with 95% accuracy. Deployed it as a building block for applications such as Biometric/ Face recognition. Employed CNNs to solve the problem statement.
- Filtered a received mail to the company into spam or not using Multinomial Naïve Bayes Classifier. Used NLP to achieve 93% accuracy and to focus on the main content of the mail.

**Python API Developer**, Karthaa Labs *May 2019 - Aug 2019*

- Spearheaded the development of APIs for the client using AWS Cloud9 Console and Python, to communicate between the cloud and the 'Book My Wash' application. Tested the developed APIs using Postman Tool.
- Executed efficient code by outlining the time complexity, which has resulted in an improved performance of the existing APIs by 35%.

## PROJECTS

**Automated COVID19 Detector from CT scans**
Designed a Modified-DarkNet19 architecture to detect COVID from the CT-Scan with an accuracy of 90%. Exercised preprocessing techniques to clean and filter the dataset. K Fold Cross Validation Technique has tackled the problem of low number of images. Implemented this trained model in an interactive ChatBot for user convenience.

**Data Science on Stock Analysis**
Chose a company's stock, preprocessed it's 6 years past data and performed rigorous analysis on it. Ran all the various machine learning algorithms (Linear Reg, Logistic Reg, Decision Trees, SVMs, Random Forest Regressors) to evaluate and predict the performance of the stock on the test dataset.

**Image Caption Generator**
Delivered a generator that outputs well-formed captions with a BLEU score of 42 that satisfies both syntactic and semantic understanding of the language when an image is fed into the system. Involved the concepts of Computer Vision, NLP, and a self-designed architecture (CNN + LSTM) to meet the objective.

**ECG Anomaly Detection**
Researched a state-of-the-art approach to detect anomalies in a patient's ECG. Created a Bi-Directional LSTM Autoencoder and trained it to classify unseen examples. The algorithm detected anomalies with 96% confidence and outperformed majority of the existing ones.

**Railway Reservation System**
Developed a Railway Reservation Application using C# and SQL. Users can search and book trains based on the destination, time of travel, etc. using the application. SMTP server was used to send automated emails to the user's mailbox.

## SKILLS

**Languages**: Java, Python, C++, SQL, R | **Skillset:** Data Science, Data Analytics, Machine Learning, Sci-Kit, Android Studio

## EDUCATION

**Masters of Science**, Applied Data Analytics *Expected Dec 2022*
Boston University GPA: 3.67

**Bachelors of Technology**, Information Technology (Minor: Big Data Analytics) *May 2017 - May 2021*
Manipal Institute of Technology GPA: 8.54

## RELEVANT COURSEWORK

- Data Structures
- Object Oriented Programming
- Database Management Systems
- Data Science with Python
- Machine Learning
- Pattern Recognition

## CERTIFICATES

**Neural Networks and Deep Learning –** Course by Andrew NG. Scored 95.10%
**Data Science using Python & R –** Learnt how to implement algorithms of ML on different functionalities.
**Big Data Specialization –** Completed all six required courses from coursera to earn a specialization in Big Data.
**Convolutional Neural Networks –** Course by Andrew NG. Scored 100% on submission of the mini project.

## CO-CURRICULARS

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| Mudra NGO<br>Teaching volunteer for underprivileged kids | RoboManipal<br>Team Member of Robotics Club in Undergrad | Finance Committee Member<br>for College Fest |