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| **Vaddadi Sai Rahul** | | |
| Boston, MA, 02118 | (857)2631925 | [vaddadi.s@northeastern.edu | [GitHub](https://github.com/VaddadiSaiRahul) |](mailto:msai@northeastern.edu) [LinkedIn](https://www.linkedin.com/in/vaddadisairahul/)  Available: May 2022 – Dec 2022 | | |
| **EDUCATION** |  |  |
| **Northeastern University**, Boston, MA | | Sept 2021 – Present |
| **Khoury College of Computer Sciences** | | Expected Graduation: 2023 |
| Master of Science in Artificial Intelligence | | GPA: 4.0 |
| Related courses: Algorithms, Statistical Inference for Engineers, Foundations of AI  **Vellore Institute of Technology**, Vellore, India  Bachelor of Technology in Computer Science and Engineering Jun 2021  Related Courses: Machine Learning, Database Management Systems, Operating Systems, Data Mining, Data Visualization, Applied Linear Algebra, Neural Networks and Fuzzy Control, Statistics for Engineers GPA: 3.61 | | |
| **TECHNICAL KNOWLEDGE** |  |  |
| **Languages**: Python, Java, C  **Databases**: MySQL, JDBC | | |
| **Skills**: Machine Learning, Deep Learning, Natural Language Processing | | |
| **Libraries**: Scikit-Learn, NumPy, Pandas, Matplotlib, TensorFlow, Keras, Nltk | | |
| **Tools:** Jupyter Notebook, Google Colab, Tableau | | |
| **Certifications**: | Coursera-Machine Learning, Deep Learning Specialization | |
| **WORK EXPERIENCE** |  |  |
| **Accio Robotics (formerly, Illuminify Technologies Pvt. Ltd.)**, Vellore, India | | |
| Object Recognition Intern |  | Sept 2019 – Aug 2020 |

* Collaborated with a team of 3 to reliably extract textual information from documents
* Designed an object recognition system using Tesseract OCR Engine
* Improved efficiency by 10% leveraging image processing techniques

# PROJECTS

**A Document Vector Approach for Early Success Prediction of Indian Movies using Subtitles** Dec 2020 – Jun 2021

* Predicted verdict of 1200 Indian films in pre-production phase using film metadata and english subtitles
* Evaluated performance of regressors and classifiers for 50d and 100d embeddings generated using a novel

Subtitle vector architecture

* Reported F1 score of 0.81 and Cohen’s Kappa score of 0.45 for XGBoost regressor and SVM classifier

**Crop Value Forecasting** Dec 2019 – Mar 2020

* Forecasted prices of 23 different commodities for a period of 12 months using Annual Rainfall and WPI
* Enhanced performance of Decision Tree regressor by 4.7% leveraging a Random Forest regressor
* Examined change in crop values and identified top 5 gainers and losers

**Closed Domain Chatbot for HPE OneView Management Software** Sept 2019

* Created a Chatbot UI for answering customer queries outlined in HPE OneView 5.0 pdf
* Implemented an LSTM network for mapping questions to answers
* Achieved 90% accuracy with support for multilingual conversation and identification of context similar queries

**Prediction of Disease Infected Places using Tweet Analysis** Mar 2019

* Estimated spread of zika, yellow and dengue fever viruses in Bangalore, India for a period of 12 months
* Trained a 72% accurate LSTM network on twitter data for hotspot detection and employed an edge server placement model to distribute these places to nearest health centers

# Image Steganography Using Face Recognition as Authentication May 2018 – Oct 2018

* Introduced face recognition as an additional layer of security to the naïve Image Steganography Algorithm
* Trained a Haar Cascade Classifier on receiving user images and encoded text in image utilizing LSB algorithm
* Identified target user 95% of times

**INTERESTS/ACTIVITIES**

* An active volunteer of EVKids community at Boston
* Represented college in 2019 International Conference on Alternative Fuels Energy and Environment for paper presentation at “Future Challenges: Artificial Intelligence with Big Data Applications” symposium
* Published technical paper “A Recursive and Parallelized Dynamic Programming Implementation of Hard Merkle-Hellman Knapsack System for Public Key Cryptography” in CIT (ISSN: 1311 – 9702)
* Led a team of 3 to secure 2nd place in 2019 VITHACK Hackathon organized by Developer Student Club
* Secured 4th place in Code2Create 2019 Hackathon organized by ACM Chapter