

# KEITH REBELLO

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Available: May-August 2022

## EDUCATION

<b>Northeastern University</b> , Boston MA. <b>Houry College of Computer Science</b> Candidate for <i>Master of Science in Artificial Intelligence</i>	September 2021 - Present <i>Expected Graduation: 2023</i> GPA: 3.67
<b>Symbiosis University</b> , Pune, IN <b>Symbiosis Center for Distance Learning</b> <i>Post Graduate Diploma in School Counseling</i>	2021 GPA: 88%
<b>University of Mumbai</b> , Mumbai, IN <b>MCT's Rajiv Gandhi Institute of Technology (RGIT)</b> <i>Bachelor of Engineering in Information Technology</i>	2020 GPA: 8.5/10

## TECHNICAL KNOWLEDGE

<b>Languages:</b>	Python, JavaScript, C, Java, R programming, HTML, CSS, PHP
<b>Databases:</b>	MySQL, MongoDB, Neo4j
<b>Skills:</b>	NLP, DL, Machine Learning, Soft Computing, Cloud (AWS, GCP, Azure)
<b>Libraries:</b>	TensorFlow, Keras, PyTorch, Scikit-learn, Turicreate, Jax, Flask, Selenium, OpenCV, HuggingFace
<b>Certifications:</b>	Machine Learning, Natural Language Processing, Advanced Machine Learning, AI in Medicine
<b>NLP Domains:</b>	NLU, NLG, Dialogue Management, Question Answering, Sentiment Analysis, Knowledge Extraction.

## WORK EXPERIENCE

<b>Research Assistant, Relational Agents Group Lab at Northeastern University</b> , Boston, MA	February 2022– Present
<ul style="list-style-type: none"><li>Developed a server and logging tool to simplify the generation of databases, and experiment navigation for a within-subjects, controlled experiment design that studies the ability of robots and conversational agents to persuade users to make healthier choices.</li><li>Assisted with a research study with promotes health literacy in minority populations through embodied conversational agents.</li></ul>	
<b>Freelance Data Scientist for a Dubai-based consultancy</b> , Dubai, UAE	August 2020 – February 2021
<ul style="list-style-type: none"><li>Built a state-of-the-art AI-powered multi-modal fact-checker for ten thousand concurrent requests with multilingual query support for both English and Arabic.</li><li>Designed the machine learning, natural language processing, and deployment module architectures based on two months of research and development.</li><li>Constructed a server to host and run the software efficiently and to scale for thousands of concurrent requests.</li></ul>	

## PUBLICATIONS

• Graph-Based Transfer Learning for Conversational Agents (IEEE)	July 2020
• Energy-efficient Face Recognition Authentication System Using Human Detection Internet-of-Things Modules (IEEE)	June 2020
• Emotionally Intelligent Artificially Intelligent Virtual Companion (IJREAM)	May 2020

## PROJECTS

<b>Sentiment Analysis using ULMFiT</b> , Solo Project	May 2020 – August 2020
<ul style="list-style-type: none"><li>Performed sentiment analysis on Twitter US Airlines Dataset based on the ULMFiT model by Fastai. Achieved a record accuracy of 84.22% relative to other Kaggle submissions for the same dataset.</li><li>Compared against DNNs, CNNs, LSTMs, Transformers and Graph Neural-Networks.</li></ul>	
<b>Emotionally Intelligent Artificially Intelligent Virtual Companion</b> , Team Lead, RGIT	January 2019 - October 2020
<ul style="list-style-type: none"><li>Designed an Emotionally Intelligent embodied conversational agent capable of generating a response by utilizing NLP, graph databases, and theories from neuroscience and psychology.</li><li>Selected as a top five undergraduate project for both 2019 and 2020 by the head of department for computer science and information technology.</li></ul>	

## INTERESTS/ACTIVITIES

- Top 3 National Grand Finalist (out of 10,000 entries) at the Smart India Hackathon for ML-based Error Log Management.
- Winner (out of 50 grand final entries) of Unscript 2k18 State-level Hackathon for Smart News Virtual Agent.