

Rahul Yedida

PH.D. STUDENT

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Education

North Carolina State University

PH.D. IN COMPUTER SCIENCE

- GPA: 4.0 | Advisor: Dr. Tim Menzies

Raleigh, USA

Aug 2019 - Present

PES University, Electronic City Campus

B.E. IN COMPUTER SCIENCE AND ENGINEERING

- GPA: 7.87/10. Graduated First Class with Distinction.
- Independently conducted C++ classes after-hours
- Talks presented: "How to design a Flappy Bird game", "An Introduction to Data Analysis", and "Complexity Classes and NP-Completeness"
- Developed a [machine learning blog](#) detailing the math and implementation for all algorithms, with 9.2k views (5.9k in 2020).

Bangalore, India

Aug 2015 - Jul 2019

Employment

Indian Institute of Astrophysics

RESEARCH INTERN

- Worked on image restoration of globular clusters using convolutional neural networks.
- Worked on novel adaptive learning rate schedulers for SGD.

Bangalore, India

Jul 2018 - Mar 2019

Research

2020	Improving Deep Learning for Defect Prediction (using the GHOST Hyperparameter Optimizer) , Rahul Yedida and Tim Menzies	<i>Under Review</i>
2020	How to Recognize Actionable Static Code Warnings (Using Linear SVMs) , Xueqi Yang, Jianfeng Chen; Rahul Yedida; Zhe Yu; Tim Menzies	<i>Under Review</i>
2020	Parsimonious Computing: A Minority Training Regime for Effective Prediction in Large Microarray Expression Data Sets. , Shailesh Sridhar, Snehanushu Saha, Azhar Shaikh, Rahul Yedida and Sriparna Saha. <i>In International Joint Conference on Neural Networks (IJCNN) 2020.</i>	<i>Published</i>
2020	Evolution of Novel Activation Functions in Neural Network Training and implications in Habitability Classification. , Snehanushu Saha, Nithin Nagaraj, Archana Mathur, Rahul Yedida. <i>In SIAM Conference on Mathematics of Data Science (MDS) 2020</i>	<i>Published</i>
2019	LipschitzLR: Using theoretically computed adaptive learning rates for fast convergence , Rahul Yedida, Snehanushu Saha, and Tejas Prashanth. <i>In Applied Intelligence.</i>	<i>Published</i>
2019	Optimizing Inter-nationality of Journals: A classical gradient approach revisited via Swarm Intelligence , Luckyson Khaidem, Rahul Yedida, Abhijit J. Theophilus. <i>In Springer Communications in Computer and Information Science (CCIS)</i>	<i>Published</i>

Relevant Projects

SymNet

PYTHON 3, KERAS

Created a high-level deep learning framework with a custom adaptive learning rate scheduler, novel activation functions, and built-in data pre-processing. The framework also picks reasonable default network architectures.

Jun 2019 - Present

Personalized Chatbot

PYTHON 3

Fine-tuned GPT-2 345M model on message data (730k messages) from Telegram to create a personalized chatbot.

May 2019

Intelligent Tutoring System

PYTHON 3

Implemented the back end of an Intelligent Tutoring System (ITS), using a Hidden Markov Model and a custom question selection algorithm.

Sep 2018 - May 2019

Activity Data Project

PYTHON 3, KERAS

Oct 2018 - Nov 2018

Collected personal data on activities performed throughout the day for 9 months along with start/end times, and grouped tasks into 30 categories. Analyzed most productive hours of the day and built 2-layer LSTM predictive model.

Honors & Awards

2017 **All India Rank 27**, National Creativity Aptitude Test (Category 2)

Bangalore, India

2015 **Winner**, Microsoft Code Hunt, BMS College of Engineering

Bangalore, India