

# 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	<b>SIMPLE is better than complex: On the value of very simple deep learning for GitHub and Bugzilla issue close time prediction</b> , <a href="#">R. Yedida</a> , X. Yang, T. Menzies	Under Review
2020	<b>Text mining to identify and extract novel disease treatments from unstructured datasets</b> , <a href="#">R. Yedida</a> , S. Abrar, C. Melo-Filho, E. Muratov, R. Chirkova, A. Tropsha	Under Review
2020	<b>Improving Deep Learning for Defect Prediction (using the GHOST Hyperparameter Optimizer)</b> , <a href="#">Rahul Yedida</a> and Tim Menzies	Under Review
2020	<b>How to Recognize Actionable Static Code Warnings (Using Linear SVMs)</b> , Xueqi Yang, Jianfeng Chen; <a href="#">Rahul Yedida</a> ; Zhe Yu; Tim Menzies	Under Revision
2020	<b>Parsimonious Computing: A Minority Training Regime for Effective Prediction in Large Microarray Expression Data Sets.</b> , Shailesh Sridhar, Snehanushu Saha, Azhar Shaikh, <a href="#">Rahul Yedida</a> and Sriparna Saha. In <i>International Joint Conference on Neural Networks (IJCNN) 2020</i> .	Published
2020	<b>Evolution of Novel Activation Functions in Neural Network Training and implications in Habitability Classification.</b> , Snehanushu Saha, Nithin Nagaraj, Archana Mathur, <a href="#">Rahul Yedida</a> . In <i>European Physical Journal Special Topics</i>	Published
2019	<b>LipschitzLR: Using theoretically computed adaptive learning rates for fast convergence</b> , <a href="#">Rahul Yedida</a> , Snehanushu Saha, and Tejas Prashanth. In <i>Applied Intelligence</i> .	Published
2019	<b>Optimizing Inter-nationality of Journals: A classical gradient approach revisited via Swarm Intelligence</b> , Luckyson Khaidem, <a href="#">Rahul Yedida</a> , Abhijit J. Theophilus. In <i>Springer Communications in Computer and Information Science (CCIS)</i>	Published

## Relevant Projects

### SymNet

PYTHON 3, KERAS

Jun 2019 - Present

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.

### Personalized Chatbot

PYTHON 3

May 2019

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

## Intelligent Tutoring System

PYTHON 3

Sep 2018 - May 2019

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

## 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

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- 2017 **All India Rank 27**, National Creativity Aptitude Test (Category 2)
- 2015 **Winner**, Microsoft Code Hunt, BMS College of Engineering

*Bangalore, India*  
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