

# Rahul Yedida

PH.D. STUDENT

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## Education

### North Carolina State University

PH.D. IN COMPUTER SCIENCE

Raleigh, USA

Aug 2019 - Exp. Jun 2024

- TA for C and Software Tools. Developed Python scripts to check correctness and style of submissions, and held weekly office hours for 56 students.

### PES University, Electronic City Campus

B.E. IN COMPUTER SCIENCE AND ENGINEERING

Bangalore, India

Aug 2015 - Jul 2019

- GPA: 7.87/10. Graduated First Class with Distinction.
- Relevant coursework: Data Structures; Algorithms; Data Analytics; Data Mining; Machine Learning; Soft & Evolutionary Computing
- Independently conducted C++ classes after-hours in freshman year
- 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 for beginners](#) detailing the math and Python implementation for all algorithms.

## Employment

### Indian Institute of Astrophysics

RESEARCH INTERN

Bangalore, India

Jul 2018 - Mar 2019

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

## Research

2019	<b>Evolution of Novel Activation Functions in Neural Network Training and implications in Habitability Classification</b> , Snehanishu Saha, Nithin Nagaraj, Archana Mathur, Rahul Yedida	<i>Under Review</i>
2019	<b>LipschitzLR: Using theoretically computed adaptive learning rates for fast convergence</b> , Rahul Yedida, Snehanishu Saha	<i>Under Review</i>
2019	<b>Optimizing Inter-nationality of Journals: A classical gradient approach revisited via Swarm Intelligence</b> , Luckyson Khaidem, Rahul Yedida, Abhijit J. Theophilus	<i>Under Review</i>
2018	<b>A suggested approach for identifying prolific authors</b> , Adel M. Aladwani, Snehanishu Saha, Rahul Yedida	<i>Under Review</i>

## 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

2017	<b>All India Rank 27</b> , National Creativity Aptitude Test (Category 2)	<i>Bangalore, India</i>
2015	<b>Winner</b> , Microsoft Code Hunt, BMS College of Engineering	<i>Bangalore, India</i>