

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

Parsimonious Computing: A Minority Training Regime for Effective Prediction in Large Microarray

2020 **Expression Data Sets.**, Shailesh Sridhar, Snehanishu Saha, Azhar Shaikh, Rahul Yedida and Sriparna Saha. In *International Joint Conference on Neural Networks (IJCNN) 2020*.

Published

Evolution of Novel Activation Functions in Neural Network Training and implications in Habitability

2020 **Classification.**, Snehanishu Saha, Nithin Nagaraj, Archana Mathur, Rahul Yedida. In *SIAM Conference on Mathematics of Data Science (MDS) 2020*

Published

LipschitzLR: Using theoretically computed adaptive learning rates for fast convergence,

Snehanishu Saha

Under Review

Optimizing Inter-nationality of Journals: A classical gradient approach revisited via Swarm Intelligence,

2019 Luckyson Khaidem, Rahul Yedida, Abhijit J. Theophilus

Under Review

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 **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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