

Dept. of Computer Science, NC State University

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Education

North Carolina State University

Raleigh, USA

Ph.D. in Computer Science

PES University, Electronic City Campus

Bangalore, India

Aug 2019 - Exp. Jun 2024

B.E. IN COMPUTER SCIENCE AND ENGINEERING

Aug 2015 - Jul 2019

- GPA: 7.82/10
- · Relevant coursework: Data Analytics; Data Mining; Machine Learning; Soft & Evolutionary Computing
- Independently conducted C++ classes after-hours in freshman year
- Presented several talks, including, "How to design a Flappy Bird game", "An Introduction to Data Analysis", and "Complexity Classes and NP-Completeness"

Employment _____

Indian Institute of Astrophysics

Bangalore, India

RESEARCH INTERN 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	Evolution of Novel Activation Functions in Neural Network Training and implications in Habitability	Under Review
	Classification, Snehanshu Saha, Nithin Nagaraj, Archana Mathur, Rahul Yedida	Officer Review
2019	LipschitzLR: Using theoretically computed adaptive learning rates for fast convergence, Rahul Yedida,	Under Review
	Snehanshu Saha	
2019	Optimizing Inter-nationality of Journals: A classical gradient approach revisited via Swarm	Under Review
	Intelligence, Luckyson Khaidem, Rahul Yedida, Abhijit J. Theophilus	
2018	A suggested approach for identifying prolific authors, Adel M. Aladwani, Snehanshu Saha, Rahul Yedida	Under Review
2018	Employee Attrition Prediction, Rahul Yedida et al. Presented at the RISE 2017 conference.	Conference Paper

Teaching Experience _____

2019 **Teaching Assistant,** C and Software Tools

Fall

Service to Profession _____

Technical Program Committee Member, International Conference on Modeling, Machine Learning, and Astronomy

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.

Machine Learning Blog

PYTHON 3 Jun 2018 - Present

Made a WordPress blog to teach machine learning, demonstrating all mathematical details with intuition and working code.

Personalized Chatbot

PYTHON 3 May 2019

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

Rahul Yedida · Résumé

Intelligent Tutoring System

Рутном з 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.

JournalBear

HTML, CSS, JAVASCRIPT, ELECTRON Jun 2017 - Feb 2019

Cross-platform journal application with AES-256 encryption. Rated 4/5 by Softpedia.

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.

Issue Reporting System

PYTHON 3, FLASK, REACT Sep 2018 - Nov 2018

Web application that allows users to submit issues, and filters duplicates when viewed by organizations using Latent Semantic Analysis.

Result Scraper

MONGODB, NODE.JS, EXPRESS, REACT

Mar 2018

Website for scraping university examination results and displaying charts and printable reports, with caching using a database.

Video Sharing Website

HTML/CSS, SASS, FLEXBOX, REACT.JS, REACT-ROUTER V4, MYSQL, EXPRESS.JS, NODE.JS, ELASTICSEARCH

Sep 2017 - Nov 2017

Simplified implementation of a video-sharing website with subscriptions and custom searching.

Xtreme Calculations

VB.NET. PYTHON 3 Apr 2013 - Oct 2017

Windows math software to solve scientific and mathematical problems.

Video Indexer

C++, QT, CMUSPHINX Sep 2017

Cross-platform desktop application to detect the time(s) a given keyword was spoken in a given video.

Web Development Projects

JAVASCRIPT, REACT.JS, D3.JS, SASS, NODE.JS, EXPRESS.JS, MONGODB

2017

Pluralsight

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Projects include URL shortener, rogue-like dungeon crawler game, voting application, Simon game, land surface temperature heatmap, and mapping meteorite impacts across the globe.

Ski**lls**

Languages C++, Python 3, HTML (Razor), CSS (Sass), JavaScript, Node.js, LaTeX, R

Libraries jQuery, React.js, D3.js, PyTorch, Keras, RJAGS, JavaFX Frameworks Express.js, ASP.NET Core 2, Entity Framework Core, Flask

Databases MySQL, MongoDB

Tools Visual Studio, Jupyter, Google Compute Engine

Honors & Awards

2017 All India Rank 27, National Creativity Aptitude Test (Category 2) Bangalore, India 2015 Bangalore, India

Winner, Microsoft Code Hunt, BMS College of Engineering

Independent Coursework

SEP 2016 Machine Learning (CS229), Andrew Ng, Stanford Engineering Everywhere Stanford University JUL 2017 Building a JavaScript Development Environment, Cory House Pluralsight

JAN 2018 Doing Data Science with Python, Abhishek Kumar

Building a Web App with ASP.NET Core, MVC, Entity Framework Core, Bootstrap and Angular, Shawn MAR 2018 Pluralsight Wildermuth

AUG 2018 Deep Learning Specialization, deeplearning.ai Coursera

OCT 2018 Computational Neuroscience, University of Washington

MAR 2019 Practical Deep Learning for Coders v3, fast.ai fast ai JUN 2019 Docker Deep Dive, Nigel Poulton Pluralsight

JUL 2019 Advanced Java Concurrency Patterns, Jose Paumard Pluralsight

JUL 2019 Bayesian Statistics: Techniques and Models, University of California, Santa Cruz Coursera

RAHUL YEDIDA · RÉSUMÉ