

# Rahul Yedida

Ph.D. student

## About

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## Web Development

### Expert

HTML CSS JavaScript

React.js Node.js

Express.js MongoDB

MySQL ASP.NET Core

## Machine Learning

### Expert

PyTorch TensorFlow

Python Keras

## Languages

English (Fluent)

## Interests

### Coffee

espresso

V60

coffee

latte

## Summary

Research focused on deep learning in software engineering, and theoretical deep learning

## Experience

### Indian Institute of Astrophysics

07/2018 - 03/2019

Research Intern

Worked on image restoration of globular clusters using convolutional neural networks.

## Open Source Projects

### NearConnect · <https://github.com/yrahul3910/socialqr>

11/2019 - Present

iOS app to connect with people nearby using multicast peer-to-peer connections.

ios swift xcode swiftui

### Personalized Chatbot · <https://github.com/yrahul3910/gpt-2>

05/2019 - 05/2019

Fine-tuned a GPT-2 345M model on 730k messages from Telegram logs to create a personalized chatbot

python deep learning machine learning data mining

### Intelligent Tutoring System · <https://github.com/yrahul3910/student-modeling-project>

project

09/2018 - 05/2019

Implemented an Intelligent Tutoring System backend using a hidden Markov model and a novel question selection algorithm

data mining python

### Activity Data Project · <https://github.com/yrahul3910/ActivityDataProject>

10/2018 - 11/2018

Collected personal activity data for 9 months, grouped tasks into 30 categories. Analyzed most productive hours of the day and built a 2-layer predictive LSTM model.

deep learning python machine learning data mining

### JournalBear · <https://www.softpedia.com/get/Office-tools/Diary-Organizers-Calendar/JournalBear.shtml>

Calendar/JournalBear.shtml

06/2017 - 02/2019

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

javascript electron

### Result Scraper · <https://github.com/yrahul3910/results-scraper-node>

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

mongodb nodejs express react web development

### Video Sharing Website · <https://github.com/yrahul3910/video-sharing-site>

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

sass flexbox react react-router mysql express nodejs elasticsearch web development

### Xtreme Calculations · <https://www.softpedia.com/get/Science-CAD/Xtreme-Calculations.shtml>

Calculations.shtml

04/2013 - 10/2017

Windows math software to solve scientific and mathematical problems.

**Video Indexer**

09/2017 - 09/2017

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

c++ qt cmusphinx

**Web development projects**

01/2017 - 11/2017

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

web development javascript react d3 sass nodejs express mongodb

**Education****North Carolina State University**

08/2019 - 05/2024

Doctorate Computer Science  
3.91

**PES University**

07/2015 - 05/2019

Bachelor Computer Science  
7.9

**Publications****When SIMPLE is better than complex: On the value of very simple deep learning for GitHub and Bugzilla issue close time prediction**

11/2020

arXiv

Rahul Yedida, Xueqi Yang, Tim Menzies

**Text Mining to Identify and Extract Novel Disease Treatments From Unstructured Datasets**

10/2020

arXiv

Rahul Yedida, Saad Mohammad Abrar, Cleber Melo-Filho, Eugene Muratov, Rada Chirkova, Alexander Tropsha

**Improving Deep Learning for Defect Prediction (using the GHOST Hyperparameter Optimizer)**

08/2020

arXiv

Rahul Yedida, Tim Menzies

**Learning to Recognize Actionable Static Code Warnings (is Intrinsically Easy)**

10/2020

Empirical Software Engineering

Xueqi Yang, Jianfeng Chen, Rahul Yedida, Zhe Yu, Tim Menzies

**Parsimonious Computing: A Minority Training Regime for Effective Prediction in Large Microarray Expression Data Sets**

05/2020

International Joint Conference on Neural Networks (IJCNN) 2020

Shailesh Sridhar, Snehanshu Saha, Azhar Shaikh, Rahul Yedida, Sriparna Saha

**Evolution of novel activation functions in neural network training for astronomy data: habitability classification of exoplanets**

11/2020

The European Physical Journal Special Topics

Snehanshu Saha, Nithin Nagaraj, Archana Mathur, Rahul Yedida, HR Sneha

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

09/2020

Applied Intelligence

Rahul Yedida, Snehanshu Saha, Tejas Prashanth

**Optimizing Inter-nationality of Journals: A Classical Gradient  
Approach Revisited via Swarm Intelligence**

11/2019

Springer Communications in Computer and Information Science vol 1290

Luckyson Khaidem, Rahul Yedida, Abhijit J. Theophilus