

# Rahul Yedida

UNDERGRADUATE STUDENT

Bangalore, India

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## Education

### PES University, Electronic City Campus

B.E. IN COMPUTER SCIENCE AND ENGINEERING

Bangalore, India

Aug 2015 - Exp. Jul 2019

- GPA: 7.86/10
- Relevant coursework: Data Analytics; Data Mining; Machine Learning; Soft & Evolutionary Computing
- Independently conducted C++ classes after-hours in freshman year

## 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.

## Projects

### 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.

### 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

Oct 2018 - Nov 2018

Collected personal data on activities performed throughout the day, grouped into 30 categories, along with start/end times. Analyzed most productive hours 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 Mini-Projects

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

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.

## Research

### WORK

2019	<b>Evolution of Novel Activation Functions in Neural Network Training and implications in Habitability Classification</b> , Snehanshu Saha, Nithin Nagaraj, Archana Mathur, Rahul Yedida	
2019	<b>A novel adaptive learning rate scheduler for deep neural networks</b> , Rahul Yedida, Snehanshu Saha	<i>Preprint</i>
2019	<b>Role of Lipschitz constant in Gradient Learning</b> , Snehanshu Saha, Rahul Yedida	<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, Snehanshu Saha, Rahul Yedida	<i>Under Review</i>
2018	<b>Employee Attrition Prediction</b> , Rahul Yedida et al. Presented at the RISE 2017 conference.	<i>Conference Paper</i>

INTERESTS

Machine Learning; Data Science; Deep Learning; Computational Neuroscience; Computational Social Science; Educational Data Mining; Affective Computing

Skills

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<b>Languages</b>	C++, Python 3, HTML (Razor), CSS (Sass), JavaScript, Node.js, LaTeX
<b>Libraries</b>	jQuery, React.js, D3.js, PyTorch, Keras
<b>Frameworks</b>	Express.js, ASP.NET Core 2, Entity Framework Core, Flask
<b>Databases</b>	MySQL, MongoDB
<b>Tools</b>	Visual Studio, Jupyter, Google Compute Engine

Honors & Awards

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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>

Standardized Test Scores

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OCT 2018	<b>GRE Mathematics Subject Test</b> , Scored 730/990 (66%ile)
OCT 2018	<b>TOEFL</b> , Reading: 30/30; Listening: 30/30, Speaking 29/30; Writing: 30/30
MAY 2018	<b>GRE General Test</b> , Quant: 170/170 (97%ile), Verbal: 158/170 (80%ile), Writing: 4.5/6 (82%ile)