Rahul **Yedida**

+1 (206) 660-7542 | hello@ryedida.me | https://github.com/yrahul3910 | https://www.linkedin.com/in/rahul-yedida/ | Rahul Yedida

Education

North Carolina State University — *Raleigh, NC*

Ph.D. Computer Science – Advisor: Dr. Tim Menzies — *Aug 2019 - May 2024*

PES University — *Bangalore, India*

B.E. Computer Science — *Aug 2015 - May 2019*

Experience

North Carolina State University — *Raleigh, NC*

Graduate Teaching Assistant — *Aug 2023 - May 2024*

- TA (with 2 others) for 149 students for a graduate Automated Software Engineering course.
- TA (with 4 others) for 289 students for a graduate Software Engineering course.

North Carolina State University — *Raleigh, NC*

Graduate Teaching Assistant — *Aug 2022 - May 2023*

- TA (with 3 others) for 97 students for a graduate Automated Software Engineering course.
- TA (with 4 others) for 233 students for a graduate Software Engineering course.

North Carolina State University — *Raleigh, NC*

Graduate Research Assistant — *Jan 2020 - May 2022*

- **Better, faster deep learning for SE:** Improved defect prediction by up to 123% (F-1 score), code smell detection by up to 30% (AUC)
- **Semi-supervised learning:** Achieved state-of-the-art results on static code warnings analysis using 10% of the labels.

Funding

Feb 2022 **$5,000**, Google Cloud Academic Research Grant

Service

Reviewer, ICML 2024; Neural Processing Letters 2023, 2024; Neural Computing & Applications (NCAA), 2023; Artificial Intelligence Review 2023; ICLR 2024; NeurIPS 2023; Journal of Big Data, 2023; Automated Software Engineering (ASE), 2023; Empirical Software Engineering (EMSE), 2021; IEEE Symposium Series on Computational Intelligence (SSCI) 2020

PC Member, International Conference on AI Foundation Models and Software Engineering (FORGE) 2024; Automated Software Engineering (ASE) Artifact Evaluation Track, 2022; International Conference on Software Maintenance and Evolution (ICSME) Artifact Evaluation Track, 2021, 2022, 2023; International Conference on Modeling, Machine Learning, and Astronomy (MMLA), 2019

Student Volunteer, Automated Software Engineering (ASE) '21

Honors & Awards

Jul 2023 **Google Cloud Champion Innovator - Cloud AI/ML**

Dec 2022 **Google Cloud Research Innovators Mentor**

Oct 2022 **Google Cloud Champion Innovator**

Feb 2022 **Google Cloud Research Innovator**

Talks

Feb 2024 **Improving deep learning performance using theoretical ML**, IEEE AI Symposium — *BITS Pilani, KK Birla Goa Campus, India*

Projects

RAISE

GitHub, PyPI

Python, Keras

Aug 2020 - Present

- Sole developer for a PEP8-compliant, ML Python package used by our research lab and others for replicable results. Downloaded 24k times.

Google/Meta Data Mining

GitHub

Python, Keras

Feb 2021 - May 2021

- Data science project to use Google Takeout and Meta user data to suggest products to advertise to a user from Amazon best-sellers using DistilGPT-2, and achieved 0.6 F-1 score.

Novel Drug Repurposing Hypotheses

GitHub

Python, PyTorch

Oct 2019 - Feb 2020

- Identified novel drug repurposing hypotheses using text mining of radio transcripts, and verified results using a knowledge graph.

Personalized Chatbot

GitHub

Python, Keras

May 2019 - May 2019

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

Intelligent Tutoring System

GitHub

Python

Sep 2018 - May 2019

- Implemented an Intelligent Tutoring System backend using Bayesian Knowledge Tracing and a novel question selection algorithm.

Skills

Languages Python, TypeScript, Java, C++

Frameworks Flask, Keras, PyTorch, Node.js, React

Databases MySQL, MongoDB, DynamoDB