


Rahul Yedida

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Education

North Carolina State University

PH.D. COMPUTER SCIENCE – ADVISOR: DR. TIM MENZIES

Raleigh, NC

Aug 2019 - Exp. Dec 2023

PES University

B.E. COMPUTER SCIENCE

Bangalore, India

Aug 2015 - May 2019

Experience

North Carolina State University

GRADUATE TEACHING ASSISTANT

Raleigh, NC

Aug 2022 - Apr 2023

- TA (with 3 others) for 119 students for a graduate Automated Software Engineering course.
- TA (with 4 others) for 243 students for a graduate Software Engineering course.

North Carolina State University

GRADUATE RESEARCH ASSISTANT

Raleigh, NC

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

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

Service

Reviewer, 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, Automated Software Engineering (ASE) Artifact Evaluation Track, 2022; International Conference on Software Maintenance and Evolution (ICSME) Artifact Evaluation Track, 2021, 2022; International Conference on Modeling, Machine Learning, and Astronomy (MMLA), 2019

Student Volunteer, Automated Software Engineering (ASE) '21

Honors & Awards

2022 **Google Cloud Champion Innovator**

Projects

RAISE

PYTHON, KERAS

GitHub, PyPI

Aug 2020 - Present

- Sole developer for a PEP8-compliant, ML Python package used by our research lab and others for replicable results. Downloaded 19k times.

Google/Meta Data Mining

PYTHON, KERAS

GitHub

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.

Personalized Chatbot

PYTHON, KERAS

GitHub

May 2019

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

Intelligent Tutoring System

PYTHON

GitHub

Sep 2018 - May 2019

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

Human Activity Data Project

PYTHON, KERAS

GitHub

Oct 2018 - Nov 2018

- Collected personal activity data for 9 months, grouped tasks into 21 categories. Analyzed most productive hours of the day.

Skills

Languages	Python, TypeScript, Java, C++
Frameworks	Flask, Keras, PyTorch, Node.js, React
Databases	MySQL, MongoDB, DynamoDB