

## EDUCATION

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### North Carolina State University

Ph.D. Computer Science - GPA: 3.9/4.0

Raleigh, NC

Aug. 2019 – Present

### PES University

B.E. Computer Science - GPA: 3.2/4.0

Bangalore, India

Aug. 2015 – May 2019

## EMPLOYMENT

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### North Carolina State University

Graduate Research Assistant

Raleigh, NC

Jan. 2020 – Present

- **Research:** Co-authored 3 first-author papers and 2 other papers.

Graduate Teaching Assistant

Aug. 2019 – Jan. 2020

- **Office hours:** Held office hours for 54 undergraduate students.
- **Lecture:** Delivered lectures on object-oriented programming and RAII in C++.

### Indian Institute of Astrophysics

Research Intern

Bangalore, India

Jul. 2018 - Mar. 2019

- **Image denoising:** Worked on image restoration of globular clusters using convolutional neural networks.
- **Research:** Proposed novel adaptive learning rate scheme for deep neural networks.

## PUBLICATIONS

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**Yedida, R.**, & Menzies, T. (2021). A Replication of ‘A Systematic Study of the Class Imbalance Problem in Convolutional Neural Networks’. In *Proceedings of the 29th ACM Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering (ESEC/FSE '21)*, August 23–28, 2021, Athens, Greece.

**Yedida, R.**, & Menzies, T. (2021). A Replication of ‘On the Number of Linear Regions of Deep Neural Networks’. In *Proceedings of the 29th ACM Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering (ESEC/FSE '21)*, August 23–28, 2021, Athens, Greece.

**Yedida, R.**, & Saha, S. (2021). Beginning with Machine Learning: A Comprehensive Primer. *The European Physical Journal Special Topics*: 1-82.

Agrawal, A., Yang, X., Agrawal, R., **Yedida, R.**, Shen, X., & Menzies, T. (2021). Simpler Hyperparameter Optimization for Software Analytics: Why, How, When?. *IEEE Transactions on Software Engineering*, doi: 10.1109/TSE.2021.3073242

Yang, X., Chen, J., **Yedida, R.**, Yu, Z., & Menzies, T. (2021). Learning to recognize actionable static code warnings (is intrinsically easy). *Empirical Software Engineering*, 26(3), 1-24.

**Yedida, R.**, & Menzies, T. (2021). On the Value of Oversampling for Deep Learning in Software Defect Prediction. *IEEE Transactions on Software Engineering*, doi: 10.1109/TSE.2021.3079841

**Yedida, R.**, Krishna, R., Kalia, A., Menzies, T., Xiao, J., & Vukovic, M. (2021). Lessons learned from hyper-parameter tuning for microservice candidate identification. *arXiv preprint arXiv:2106.06652*.

**Yedida, R.**, Yang, X., & Menzies, T. (2021). When SIMPLE is better than complex: A case study on deep learning for predicting Bugzilla issue close time. *arXiv preprint arXiv:2101.06319*.

Saha, S., Nagaraj, N., Mathur, A., **Yedida, R.**, & Sneha, H. R. (2020). Evolution of novel activation functions in neural network training for astronomy data: habitability classification of exoplanets. *The European Physical Journal Special Topics*, 229(16), 2629-2738.

**Yedida, R.**, Abrar, S. M., Melo-Filho, C., Muratov, E., Chirkova, R., & Tropsha, A. (2020). Text Mining to Identify and Extract Novel Disease Treatments From Unstructured Datasets. *arXiv preprint arXiv:2011.07959*.

**Yedida, R.**, Saha, S., & Prashanth, T. (2020). LipschitzLR: Using theoretically computed adaptive learning rates for fast convergence. *Applied Intelligence*, 1-19.

Sridhar, S., Saha, S., Shaikh, A., **Yedida, R.**, & Saha, S. (2020, July). Parsimonious Computing: A Minority Training Regime for Effective Prediction in Large Microarray Expression Data Sets. In *2020 International Joint Conference on Neural Networks (IJCNN)* (pp. 1-8). *IEEE*.

Khaidem, L., **Yedida, R.**, & Theophilus, A. J. (2019, November). Optimizing Inter-nationality of Journals: A Classical Gradient Approach Revisited via Swarm Intelligence. In *International Conference on Modeling, Machine Learning and Astronomy* (pp. 3-14). *Springer, Singapore*.

## TALKS

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*Complexity Classes and NP-Completeness*, presented at PES University, Bangalore, 2017.

*How to design a Flappy Bird game*, presented at PES University, Bangalore, 2018.

*Machine Learning*, presented at PES University, Bangalore, 2018.

*An Introduction to Data Analysis*, presented at PES University, Bangalore, 2018.

## SERVICE TO PROFESSION

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**Reviewer**, IEEE Symposium Series on Computational Intelligence (SSCI) 2020

**Technical Program Committee Member**, International Conference on Modeling, Machine Learning, and Astronomy, 2019