Goutham Ramakrishnan

Senior Machine Learning Software Engineer

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in goutham-ramakrishnan

Experience

Health at Scale Corporation **Senior Machine Learning Software Engineer** San Jose, CA

Mar'22 - Present

Jun'20 - Feb'22

• Developing machine learning and software systems for large scale healthcare data.

Microsoft Research Cambridge Researcher Intern

Machine Learning Software Engineer

United Kingdom

• Developed an end-to-end framework for discovering and versioning sensitive files across a project cycle, for easing data compliance in healthcare research (% Link).

American Express **Data Analyst Intern**

Gurugram, India

May - Jul 2017

 Analyzed customer data and isolated inefficiencies in existing manual underwriting procedures. Designed a unified global framework for manual underwriting.

Research

Backdoors in Neural Models of Source Code

Goutham Ramakrishnan, Aws Albarghouthi

International Conference on Pattern Recognition (ICPR), 2022

% Link

Semantic Robustness of Models of Source Code

J Henkel*, G Ramakrishnan*, Z Wang, A Albarghouthi, S Jha, T Reps

Conference on Software Analysis, Evolution and Reengineering (SANER), 2022 % Link

Towards Robustness to Label Noise in Text Classification

Siddhant Garg*, Goutham Ramakrishnan*, Varun Thumbe*

Conference on Information and Knowledge Management (CIKM), 2021 % Link

BAE: BERT-based Adversarial Examples for Text Classification

Siddhant Garg*, Goutham Ramakrishnan*

Conference on Empirical Methods in NLP (EMNLP), 2020

% Link

Synthesizing Action Sequences for Modifying Model Decisions

Goutham Ramakrishnan*, Yun Chan Lee*, Aws Albarghouthi

Thirty-Fourth AAAI Conference on Artificial Intelligence (AAAI), 2020 % Link

Interpretable Inference Graphs for Face Recognition

Siddhant Garg*, Goutham Ramakrishnan*, Varun Thumbe

Conference on Image and Vision Computing New Zealand (IVCNZ), 2019 % Link

Fast GPU-Enabled Color Normalization for Digital Pathology

Deepak Anand*, Goutham Ramakrishnan*, Amit Sethi

Conference on Systems, Signals and Image Processing (IWSSIP), 2019

% Link

Projects

Towards Compliant Data Management Systems for Healthcare ML

Goutham Ramakrishnan, Aditya Nori, Hannah Murfet, Pashmina Cameron

Preprint - Nov 2020

% Link

% Link

Advances in Quantum Deep Learning: An Overview

Siddhant Garg*, Goutham Ramakrishnan*

Preprint - May 2020

*Equal Contribution by Authors

Education

M.S in Computer Sciences University of Wisconsin-Madison

May 2018 - May 2020

GPA: 4.0/4.0

B.Tech in Electrical Engineering **Indian Institute of Technology Bombay**

Technical Skills



Coursework

Machine Learning Reinforcement Learning Mathematical Foundations of ML Security and Privacy for ML Data Management for ML Deep Learning in Computer Vision Natural Language Processing Data Structures and Algorithms **Operating Systems Discrete Structures** Nonlinear Optimization

Achievements

- Academic Service: Reviewer for • EMNLP'21, • Algorithmic Recourse Workshop at ICML'21
- Member of Winning Team: Microsoft Hackathon (UK) - Summer 2019
- Institute Student Mentor, IIT-Bombay (Apr 2017 - May 2018)
- Institute Football Convener, IIT-Bombay (May 2015 - April 2016)
- Silver Medalist in Soccer at the 51st Inter-IIT Sports Meet, Kanpur - 2016
- All India Rank 959 in JEE Advanced 2014

Other

- Teaching Assistant:
 - CS 301 (Data Programming) Fall 2018, UW-Madison
 - MA 207 (Differential Equations) Fall 2016, IIT-Bombay
- Volunteering: Tutored underprivileged students at Abhyasika, Mumbai