Goutham Ramakrishnan

Machine Learning Software Engineer

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in goutham-ramakrishnan

Experience

Machine Learning Software Engineer

Jun 2020 - Present

Health at Scale Corporation

San Jose, CA

• Working to develop novel machine learning algorithms and software engineering systems to analyze large scale healthcare data.

Researcher Intern

Microsoft Research Cambridge

♀ 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).

Data Analyst Intern

American Express

Q Gurugram, India

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

Research

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

Towards Robustness to Label Noise in Text Classification

Siddhant Garg*, Goutham Ramakrishnan*, Varun Thumbe*

RobustML and S2D-OLAD Workshops at ICLR 2021

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Link

Backdoors in Neural Models of Source Code**

Goutham Ramakrishnan, Aws Albarghouthi

Preprint - Jun 2020

Semantic Robustness of Models of Source Code**

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

Preprint - Jun 2020

% Link

*Equal Contribution by Authors **Work

**Work under submission

Projects

Towards Compliant Data Management Systems for Healthcare ML

Goutham Ramakrishnan, Aditya Nori, Hannah Murfet, Pashmina Cameron

Preprint - Nov 2020

% Link

Advances in Quantum Deep Learning: An Overview

Siddhant Garg*, Goutham Ramakrishnan*

Preprint - May 2020

% Link

Education

M.S in Computer Sciences
University of Wisconsin-Madison

Aug 2018 - May 2020 GPA: 4.0/4.0

B.Tech in Electrical Engineering Indian Institute of Technology Bombay

🛗 Jul 2014 - May 2018 GPA: 9.29/10.0

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
Bayesian Methods for ML
Data Structures and Algorithms
Operating Systems
Discrete Structures
Computer and Network Security
Nonlinear Optimization

Achievements

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