

□ (+91) 9810610532 | 🔀 anirudhdagar6@gmail.com | 🎁 anirudhdagar.github.io | 🖸 AnirudhDagar | 💆 gollum_here

Education

Indian Institute of Technology Roorkee

Roorkee, India

July. 2016 - Jun. 2021

INTEGRATED M.TECH IN GEOLOGICAL TECHNOLOGY

• Cumulative Grade Point Average, CGPA:8.25/10

Publications

ProteinGCN: Protein model quality assessment using Graph Convolutional Networks [Paper] ()

Preprint

Sanyal, S. and Anishchenko, I. and Dagar, A. and Baker, D. and Talukdar, P.

Apr. 2020

Indian Institute of Science, University of Washington, IIT Roorkee

link

In-context learning with iterative demonstration selection

Preprint

Qin C, Zhang A, Dagar, A, Ye W.

Amazon Web Services

link

Experience

Amazon Web Services, Al

Berlin, Germany Sep. 2021 - Present

APPLIED SCIENTIST

- · Leading development for AutoGluon-Assistant: Zero LoC AutoML
- Maintainer & Contributor at AutoGluon: SoTA AutoML library [Open Source]
- Competing in Kaggle AutoML Grand Prix 2024 with AutoGluon-Assistant
- PyTorch & JAX Framework Adaptation Author: Dive Into Deep Learning. [Open Source]

SciPy Remote

OPEN SOURCE DEVELOPER

Jul. 2021 - Present

Remote

 Contributor since July 2021. My contributions **Quansight Labs**

SOFTWARE DEVELOPMENT INTERN [SLIDES] [DEMO] [BLOG]

Jun. 2021 - Sep. 2021

- Worked on the Data API Standardization
- Work done on improving array libraries interoperability. (SciPy | PyTorch | NumPy | CuPy)
- Contributions to SciPy
 PyTorch
 PyT

CERN Remote

GOOGLE SUMMER OF CODE [OFFICIAL RELEASE] [BLOG]

May. 2020 - Aug. 2021

- · Contributing to TMVA, a machine learning environment integrated into the ROOT scientific software framework for HEP.
- Development of TMVA PyTorch Interface.
- · Mentor in GSoC 2021. Student in GSoC 2020.

Amazon Web Services, AI

MACHINE LEARNING INTERN

Seattle

Port MXNet code into PyTorch for the book Dive Into Deep Learning by Aston Jhang et al.

- Development of the MLA course "Graph Machine Learning" for MLU.
- Worked on GNNs for Heterogeneous Graphs with Deep Graph Library.

Vernacular.ai

Bangalore, India

Oct 2020 - Ian 2021

MACHINE LEARNING INTERN

May. 2020 - Jul. 2020

- Built a Bad Audio Detection model to reject noisy inscrutable audios.
- Built a Seq2Seq Resegmentation module for D-Vector + Clustering prediction outputs in the Diarization pipeline.
- · Generated Simulated Mixture Dataset for Diarization.

ProteinGCN, MALL Lab (Prof. Partha P. Talukdar)

IISc Bangalore, India May. 2019 - Apr. 2020

RESEARCH INTERNSHIP [LINK]

Introduced ProteinGCN, a novel method for Protein Model Quality Assessment using GCNs.

ANIRUDH DAGAR · RÉSUMÉ

Temporal Relation Classification, MALL Lab (Prof. Partha P. Talukdar)

IISc Bangalore, India

May. 2018 - Jul. 2018

RESEARCH INTERNSHIP [PROJECT REPORT]

• Built a pipeline to use TIME ML based TIME BANK Dataset for Temporal Relation Classification.

• Implemented (GCN+biLSTM) for classification on TB Dense Dataset.

Projects

DEVELOPER

GitHub Tracker 🗘 🚱 Roorkee

Developer Mar. 2021

• Track Unfollowers with gh-tracker chrome extension.

PaperVizRoorkee, IndiaDEVELOPERApr. 2020 - Sept. 2020

• Developed a web interface to visualize research papers based on similarity.

Utilized SentBERT, SciBERT and SPECTER to create document embeddings.

Graph Representation Learning 🦪

Roorkee, India
Oct. 2019 - Jan. 2020

• PyTorch implementation & blogs on major Graph Representation Learning papers.

• Deep Walk, Graph Convolutional Networks, GraphSAGE, ChebNet, Graph Attention Networks

Satellite Image Classification in Remote Sensing Data Using Neural Nets

Roorkee

DEVELOPER Feb. 2018

• Developed mutiple image classification models on the 21 Class UC Merced Land Use Dataset. [Report]

Achievements & Honors ____

2019	All India Rank 7 , Flipkart GRID ML Competition Level 1	Bangalore, India
2019	Overall 2nd, Enigma Hackathon, Astrax IIT Mandi 2019 (Astronomy Competition)	Mandi, India
2018	Scholar , Won Chevron Scholarship Student Member AAPG 2018	Roorkee, India
2017	2nd Position, Table Tennis, Sangram'17 (Sports Fest IIT R)	Roorkee, India
2016	Top 0.1% , Qualified JEE Advanced 2016	India
2012	State Level, National Talent Search Examination 2012(NTSE)	Ghaziabad, India
2012	Participant, Bosch Indo-German 2012 Exchange Programme	Ebern, Germany

Skills

Programming Python, C/C++, HTML, CSS, Javascript, Shell Scripting, LaTeX

Frameworks PyTorch, Numpy, SciPy, Keras

Utilities git, zsh, vim, MacOS X, Sublime, Adobe Photoshop, Sketch

Languages English, Hindi

Relevant Coursework

Undergraduate India

ML/DL/NLP/Vision

2016-Present

- CS 229: Machine Learning
- CS224W: Machine Learning with Graphs
- CS 224n: Natural Language Processing with Deep Learning
- CS 11-747: Neural Networks for NLP
- CS 231n: CNNs for Visual Recognition
- NPTEL-NOC 18: Deep Learning

Positions Of Responsibility _____

2021	Mentor , Google Summer of Code	Remote
2020	Mentor, Mentors Without Borders	Africa
2019	President, Data Science Group	IIT Roorkee
2019	Mentor, Student Mentorship Program	IIT Roorkee
2018	UG, DAPC Representative, Dept. of Earth Sciences, IIT Roorkee	IIT Roorkee

ANIRUDH DAGAR · RÉSUMÉ

2