

Anmol Anand

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WORK EXPERIENCE

Goldman Sachs <i>ML Engineer, Surveillance Models Engineering</i>	July 2024 – Present
<ul style="list-style-type: none">Enhanced the Insider Trading Surveillance Model, improving precision from 0.33% to 0.93% and quasi-recall from 55.03% to 97.80%.Built an AutoML framework in PySpark for distributed model training, reducing training latency up to 1000x.Applied Computational Geometry algorithms to detect potential intraday market manipulation patterns.	
Goldman Sachs <i>Full Stack Developer, Search Engineering</i>	Jun 2019 – Jun 2022
<ul style="list-style-type: none">Contributed to Search Engineering team's natural-language, petabyte-scale, distributed, search engine.Improved search result quality by 48% and summarized results which could go up to a billion documents.Reduced average retrieval latency by a factor of 50 through algorithmic improvements.Pre-processed large datasets via batch-processing offline jobs.	

ACADEMIC EXPERIENCE

Data Integration Visualization & Exploration Lab <i>Open Source Contributor</i>	Jan 2023 – Apr 2023
<ul style="list-style-type: none">Strengthened DIVE into Graphs (a deep learning library) with GraphAug: a Graph Augmentation method using Graph Neural Networks. Elevated graph classification performance by generating augmented samples.Produced Python library documentation for the GraphAug implementation.	
Programming and Algorithms Group, IIT Roorkee <i>Core Member</i>	May 2016 – May 2019
<ul style="list-style-type: none">Conducted lectures on Data Structures and Algorithms.Organized on-campus programming contests - Insomnia, CodeBlitz, and CodeCipher.	
Indian Institute of Technology <i>Teaching Assistant - Discrete Structures</i>	Jan 2019 – Apr 2019
<ul style="list-style-type: none">Assisted students with course materials, graded assignments, and facilitated discussions.	

PROJECTS

A novel graph clustering method — Paper	
<ul style="list-style-type: none">Introduced a novel k-way graph conductance function to measure quality of a k-clustering on a graph.Compared its effectiveness in finding k-clusters to existing k-way conductance functions.Gave a novel proof for a k-way Cheeger's inequality on this conductance function.	
Fast image classification using ResNet variant — GitHub	
<ul style="list-style-type: none">Developed an advanced image classification model using a novel ResNet variant.Achieved an accuracy of 93.56% on the CIFAR-10 dataset in 90 epochs, addressing challenges such as slow convergence.	

TECHNICAL SKILLS

Software: Java, C/C++, Python, JavaScript, React.js, Node.js, Docker, Heroku, Agile	
DBs & Cloud: Postgres, SQL, HDFS, HBase, Azure, AWS	
ML: Jupyter, PyTorch, PyTorch Geometric, Sphinx, Graph Neural Nets, Convolutional Neural Nets, Transformers	
Data: Apache Hadoop, PySpark, MapReduce, Protocol Buffers, Information Retrieval, Big Data	

EDUCATION

Indian Institute of Technology, Roorkee <i>Bachelor's in Computer Science & Engineering</i>	2015 – 2019
Texas A&M University, College Station, TX <i>Master's in Computer Science</i>	2022 – 2024

ACHIEVEMENTS

- Codeforces:** Max rating 2008 (Candidate Master)
- Codechef:** Max rating 2172 (5 stars)
- Texas A&M University: **International Graduate Student Scholarship** (2022-2024)
- Represented Indian Institute of Technology at **ACM-ICPC** India on-site regionals
- Indian Institute of Technology, Joint Entrance Exam (2015): **All India rank 502** out of 1.2 million candidates