

# Anmol Anand

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## WORK EXPERIENCE

<b>Goldman Sachs</b>   <i>ML Engineer, Surveillance Models Engineering</i>	July 2024 – Dec 2025
<ul style="list-style-type: none"><li>Enhanced the <b>Insider Trading Surveillance Model</b>, improving precision from 0.33% to 0.93% and quasi-recall from 55.03% to 97.80%.</li><li>Built an <b>AutoML framework in PySpark</b> for distributed model training, reducing training latency up to 1000x.</li><li>Applied <b>Computational Geometry algorithms</b> to detect potential intraday market manipulation patterns.</li></ul>	
<b>Goldman Sachs</b>   <i>Full Stack Developer, Search Engineering</i>	Jun 2019 – Jun 2022
<ul style="list-style-type: none"><li>Contributed to Search Engineering team's <b>natural-language, petabyte-scale, distributed, search engine</b>.</li><li>Improved search result quality by 48% and summarized results which could go up to a billion documents.</li><li>Reduced average retrieval latency by a factor of 50 through algorithmic improvements.</li><li>Pre-processed large datasets via batch-processing offline jobs.</li></ul>	

## ACADEMIC EXPERIENCE

<b>Data Integration Visualization &amp; Exploration Lab</b>   <i>Open Source Contributor</i>	Jan 2023 – Apr 2023
<ul style="list-style-type: none"><li>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.</li><li>Produced Python library documentation for the GraphAug implementation.</li></ul>	
<b>Programming and Algorithms Group, IIT Roorkee</b>   <i>Core Member</i>	May 2016 – May 2019
<ul style="list-style-type: none"><li>Conducted lectures on Data Structures and Algorithms.</li><li>Organized on-campus programming contests - Insomnia, CodeBlitz, and CodeCipher.</li></ul>	
<b>Indian Institute of Technology</b>   <i>Teaching Assistant - Discrete Structures</i>	Jan 2019 – Apr 2019
<ul style="list-style-type: none"><li>Assisted students with course materials, graded assignments, and facilitated discussions.</li></ul>	

## PROJECTS

### A novel graph clustering method — [Paper](#)

- 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](#)

- 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

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