

Anmol Anand

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WORK EXPERIENCE

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- Goldman Sachs** | *ML Engineer, Surveillance Models Engineering* July 2024 – Dec 2025
- 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** | *Full Stack Developer, Search Engineering* Jun 2019 – Jun 2022
- 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

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- Data Integration Visualization & Exploration Lab** | *Open Source Contributor* Jan 2023 – Apr 2023
- 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** | *Core Member* May 2016 – May 2019
- Conducted lectures on Data Structures and Algorithms.
 - Organized on-campus programming contests - Insomnia, CodeBlitz, and CodeCipher.
- Indian Institute of Technology** | *Teaching Assistant - Discrete Structures* Jan 2019 – Apr 2019
- Assisted students with course materials, graded assignments, and facilitated discussions.

PROJECTS

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- 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

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

ACHIEVEMENTS

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- 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