Anirudh Prabakaran

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EDUCATION

MS in Computer Science | Georgia Institute of Technology | GPA: 4.0/4.0   **Aug 2021 — May 2023**
- **Specialization:** Machine Learning
- **Courses:** Graduate Algorithms, Computer Vision, Machine Learning, Natural Language, Deep Learning, Artificial Intelligence
- **Graduate Teaching Assistant:**
  - CS 7641: Machine Learning (Fall 2022, Spring 2023)
  - CS 4400: Introduction to Database Systems (Fall 2021, Spring 2022)

B.Tech in Computer Science | National Institute of Technology - Tiruchirappalli | GPA: 8.18/10.00   **Jul 2014 — May 2018**
- **Courses:** Data Structures and Algorithms, Operating Systems, Database Management Systems, Computer Networks.

WORK EXPERIENCE

Meta   **Menlo Park, CA**
Software Engineer | Instagram   Nov 2023 — Present
- Working on the Instagram Business Experiences team, building product features and backend infrastructure for IG.

Software Engineer Intern | Facebook   Jun 2022 - May 2022
- Built end-to-end ML pipelines to improve music recommendations in Facebook's Music Browser. Work involved Dataswarm pipelines, large-scale model prototyping, and global A/B testing.

Athelas   **Mountain View, CA**
Software Engineer   June 2023 — Nov 2023
- Worked at the intersection of software and healthcare, building tools for Revenue Cycle Management using backend, cloud, and data engineering technologies.

Iron Mountain   **Bangalore, India**
Machine Learning Engineer | Insights   Sep 2020 — Jun 2021
- Developed and patented a human-in-loop, event-driven GCP pipeline for Document Understanding tasks, leading to significant savings and broad application across company divisions. This role entailed collaborating with product teams, delivering weekly analyses, and overseeing the pipeline's design, deployment, and maintenance. [link]

Samsung Research India   **Bangalore, India**
Senior Software Engineer | IoT Products and Platforms   Jun 2018 — Aug 2020
- Demonstrated strong algorithmic competency, earning the Samsung professional certification and contributing significantly to research, commercialization, and debugging efforts for Home Monitoring solutions integrated with SmartThings.
- Led a research proposal on identifying anomalous segments in surveillance videos using C3D for spatiotemporal feature extraction, successfully presenting the paper at an IEEE conference. [link]
- Developed an SDK for IoT devices to enable efficient peer-to-peer communication using WebRTC, reducing latency, server costs, and privacy concerns, while integrating the solution on devices such as surveillance cameras and robot vacuum cleaners.
- Received a spot award for developing an emergency home audio monitoring engine to detect common household sounds, successfully integrating it into the Galaxy home assistant and presenting the innovation at a workshop in Korea.[link]

RECENT PROJECTS

opensports.ai | Sports Analytics with AI [link]   **2025**
- Building a web app that allows users to explore sports statistics in natural language via a fine-tuned LLM-to-SQL engine.
- Designed and deployed the full-stack system on GCP with weekly data refresh pipelines, intelligent charting, and human-in-the-loop model refinement.

evadb | Exploratory Video Analytics [project link] [paper link]   **2023**
- Contributed to EVA, an open-source AI-relational database enabling efficient querying over structured and unstructured data using deep learning models.
- Implemented SQL-like query support for videos and images, with relational database–inspired optimizations such as function caching, sampling, and cost-based operator reordering to accelerate deep learning pipelines.

TECHNICAL SKILLS

Languages: Python, Hack (PHP), SQL

VOLUNTEER AND EXTRA-CURRICULAR

- **Make a Difference (Volunteer Teacher):** Taught weekly classes to underprivileged school children in Bangalore. [link]
- **Undergrad Leadership:** Led publicity and marketing for major college events; member of chess and coding clubs.