

# Anirudh Prabakaran

San Francisco, CA  
anirudhprabakaran7@gmail.com

anip.me  
linkedin

## 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, Intro to Health Informatics, Data and Visual Analytics
- **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

- Building and scaling product experiences around IG stories, focused on enhancing user experience and driving ad revenue growth.

Software Engineer Intern | Facebook

Jun 2022 - May 2022

- Worked on end-to-end ML pipelines to make recommendations better and faster on the Music Browser used across Facebook. My work involved writing Dataswarm pipelines, prototyping and training large-scale models, and conducting A/B testing.

### Athelas

Mountain View, CA

Software Engineer

June 2023 — Nov 2023

- Worked at the intersection of software and healthcare, building cutting-edge tools for modern healthcare organizations. My role encompasses key parts of our Revenue Cycle Management flow, blending Cloud, Backend, and Data Engineering.

### 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. [patent link]

### Samsung Research India

Bangalore, India

Senior Software Engineer | IoT Products and Platforms

Jun 2018 — Aug 2020

- Demonstrated strong algorithmic competency, earning the prestigious 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. [paper 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

**Exploratory Video Analytics** [project link]

2023

- Developed and contributed to EVA, an open-source AI-relational database with support for deep learning models, enabling efficient analysis of both structured and unstructured data, integrating a range of pre-built models for various data types and applications.
- EVA supports a user-friendly, SQL-like interface to query over videos or images, with optimizations inspired by relational databases, such as function caching, sampling, and cost-based operator reordering, to accelerate Deep Learning pipelines.

**Interactive Twitter Bot Detection through Network Graph Analysis** [report link]

2023

- Developed an interactive Twitter bot detection system that combines NLP, network graph analysis, and expert human judgment, leveraging Twibot datasets to train graph embedding models and execute hierarchical clustering.
- Designed a user-friendly interface to display t-SNE visualizations of unlabeled clusters, enabling users to make informed decisions on bot status by reviewing account profiles, enhancing overall detection precision and labeling speed.

## TECHNICAL SKILLS

**Languages and Tools:** Python, SQL, JavaScript, PyTorch, Docker, Git, GCP, Linux, PySpark

## VOLUNTEER AND EXTRA-CURRICULAR

- **Teaching Volunteer, Make a Difference:** Taught classes weekly for school kids belonging to various shelters in Bangalore. [link]
- **Leadership, Undergrad:** Headed publicity and marketing for cultural and departmental events. Part of chess team and coding club.