



ANIRUDH LAKHOTIA

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Education

PES University

Sep. 2021 – May 2025

Bachelor of Technology in Computer Science, *Cumulative GPA: 9.51/10*

Bengaluru, India

- **MRD Scholar** - Among the top **5%** of students in the batch.
- **Technical Lead at Google Developer Student Clubs, PES University** - Designed and facilitated interactive workshops on Databases, Web Development and Machine Learning.
- **Relevant Coursework:** Data Structures, Machine Learning, Deep Learning, Natural Language Processing, Cloud Computing, Operating Systems, Data Analytics, Big Data, Software Engineering, Database Management Systems.

Amazon

Sep. 2023 – Oct. 2023

Machine Learning Summer School

Remote

- Selected for the Amazon India Machine Learning Summer School program with a *national* selection rate of **5%**.

Publications

UnoLoRA: Single Low-Rank Adaptation for Efficient Multitask Fine-tuning, FITML Workshop

NeurIPS 2024

Experience

Nokia

Jun. 2024 – Dec. 2024

Intern

Remote

- Engineered an ETL pipeline for processing **100GB+** of daily geospatial data
- Implemented Apache Druid for data storage, enabling queries on **30 million** rows with response times under **1 second**
- Introduced geospatial indexing, reducing query time by **90%** and memory utilization by **50%**

PES Innovation Lab

Jun. 2023 – Aug. 2023

Research Intern

Bengaluru, India

- Developed DistilledChaos, an automation tool that performs data-driven chaos testing for engineers, reducing the time needed for testing by over **50%** and improving system resilience in **cloud-native systems**.
- Managed a Kubernetes cluster for seamless deployment, scaling, and optimization.
- Diagnosed **30%** more errors within microservices, contributing to enhanced system stability and performance.

Cisco

Jul. 2019 – Feb. 2020

Student Intern

Bengaluru, India

- Designed a front-end interface using Angular and Bootstrap, resulting in a **50%** increase in user engagement.
- Achieved a server load rating of **300+** concurrent users by deploying to AWS EC2.
- Architected a **MongoDB database** schema for the app, supporting **1000+** users.

Projects

Multilingual Large Language Model [\[Link\]](#)

Jan. 2024 – Present

- Secured **\$5,000** from Microsoft by winning the open-source AI hackathon supported by Meta and Microsoft
- Architected data pipelines for cleaning and processing diverse Indian language datasets for LLM pre-training, reducing processing time by **50%**.
- Designed and developed a **multilingual Mixture of Experts (MoE)** model with support for text in 3 languages - **English, Hindi, and Kannada**.
- Performed LLaMa-2 7B fine-tuning, optimizing experts via continual and domain adaptive pre-training.

Distributed Load Testing System [\[Link\]](#)

Oct. 2023 – Nov. 2023

- Developed a distributed load testing system coordinating upto **8 nodes**, achieving **10,000+** requests/second throughput
- Implemented a real-time metrics dashboard for min, max, mean, and median latencies with update intervals of less than **1 second**
- Introduced a fault-tolerant Kafka communication layer with **99.9%** uptime, supporting multiple test patterns

High-Performance Stock Analytics Platform [\[Link\]](#)

Oct. 2023

- Spearheaded the development of a stock visualization dashboard for **7000+** companies, featuring candlestick charts, moving averages, summary statistics, and RSI metrics.
- Devised and optimized a database to effectively store and query over **42 million** records.
- Implemented advanced time-series database optimizations, achieving **600x** faster read times compared to an unoptimized PostgreSQL database.

Technical Skills

Languages: Python, C, C++, Java, JavaScript, \LaTeX , SQL, NoSQL, Bash

Developer Tools: Git, VS Code, Vim, Docker, Kubernetes, Elasticsearch

Technologies/Frameworks: ReactJS, NodeJS, ExpressJS, TailwindCSS, Bootstrap, Apache Spark, Apache Kafka, Pyspark, Grafana, Linkerd, Istio, Fluentd, Pytorch, Tensorflow, Huggingface, Unsloth