

# ANIRUDH NANDURI

✉ nandurianirudh28@gmail.com ☎ +91 8374112498 🔗 [linkedin.com/in/anirudh-nanduri-5190b2163/](https://www.linkedin.com/in/anirudh-nanduri-5190b2163/)

## EDUCATION

### Indian Institute of Technology, Kanpur

M.Tech. in Computer Science & Engineering - 9.0 GPA Aug 2021-June 2023

Courses: • Data Structures and Algorithms • Database Management Systems • Operating Systems • Introduction to Machine Learning • Information Retrieval

### National Institute of Technology, Warangal

B.Tech. in Computer Science & Engineering - 8.34 GPA Aug 2016 – May 2020

## WORK EXPERIENCE

### Salesforce

Associate Member of Technical Staff June 2020-July 2021

- Worked on developing static container scanning microservice application using Spring Boot and AWS. Detected static security vulnerabilities in software artifacts using open source tools.
- Developed scheduling and reporting features running on a Kubernetes cluster.
- Added unit tests and participated team-level bi-weekly deployment and patching activities.

### VISA

Software Engineer Intern May 2019-July 2019

- Developed an application to validate servers after patching. Provided a user interface to configure the validation using http, ssh and shell commands.
- Integrated the application with the internal tools of VISA.

## PROJECTS

### Representation Learning using Single cell Multiomics datasets (May'22 - Present)

- Implemented Disentangled Multimodal VAE (DMVAE) and Total Variational Inference framework (TotalVI) to generate private latent representation of genes and protein on CITE seq dataset.
- Benchmarked the model and obtained 16% performance improvement on ARI metric of cell-type clustering compared to SOTA models.

### Simple File System, Self Project (June'22 - July'22)

- Developed a simple UNIX-like file system in user space which supports file management and directory management (create, delete, copy data).
- Provided a command line interface to enter commands and manage the file system.

### Document Retrieval Engine of English Corpora (Feb'22 - March'22)

- Implemented Simple Boolean, TF-IDF and BM25 based information retrieval system in python
- Retrieved top 20 relevant documents to a query from 8634 document corpus using the IR systems.
- Evaluated the IR systems on random queries and calculated the Mean Average Precision (MAP) metric.

## SKILLS

- Programming Languages: C C++ JAVA Python SQL
- Libraries/Tools: Git Pandas Numpy Pytorch-Lightning Scanpy Docker Linux Machine Learning
- Cloud Platforms: Amazon Web Services (AWS)
- Databases: MySQL

## ACHIEVEMENTS

- Secured All India Rank 164 in GATE CS 2021, about 1.1 lakh candidates appeared for the examination
- Secured All India Rank 1413 in JEE Mains 2016, about 12 lakh candidates appeared for the examination
- Selected for Amazon ML summer school 2022