ANIRUDH NANDURI

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EDUCATION

IIT Kanpur
MTech. in Computer Science & Engineering
Aug 2021-May 2023(Expected)
CPI/%: 9.0/10

NIT Warangal
BTech. in Computer Science & Engineering
Aug 2016 – May 2020
CPI/%: 8.34/10

Excel Junior College
Intermediate Education, Telangana Board
June 2014 – Aug 2016
CPI/%: 98.8/100

TECHNICAL 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

RELEVANT COURSES

- Data Structures and Algorithms
- Database Management Systems
- Operating Systems
- Introduction to Machine Learning
- Information Retrieval

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.
- Internship for three months at **VISA** and received PPO in 2019.

EXPERIENCE

Salesforce   Associate Member of Technical Staff
June 2020-July 2021   Hyderabad

- 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 of the **static container scanning application** 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   Bangalore

- 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
(MTech. Thesis) Guide: Prof. Hamim Zafar   (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
(CS657) Guide: Prof. Arnab Bhattacharya   (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.

POSITIONS OF RESPONSIBILITY

- **Teaching Assistant:** Fundamentals of Computing and head TA of Data Structures and Algorithms   (Aug'21-Present)