ANISH KUMAR KHARWAR

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Education

2017 – 2021
Bachelor of Technology, Computer Science and Engineering
Indian Institute of Information Technology Kalyani
Cumulative GPA: 8.29

Experience

Nference Labs Pvt. Ltd. | Software Engineer
Python, Bash, GCP, Tesseract, Django |

August 2021 – Present

- Working as a part of de-identification team, contributed to 3 different components of a microservices architecture having publisher subscriber model.
- Implemented a new component for parsing genomic information present in Gene Panel Reports(TIFF files) using tesseract. The component ran on documents from 74k+ patients fetching information on tumor and gene mutations.
- Created a pipeline for aggregation and analysis of redactions taking place across 29 tables in structured component. It helped boosting the performance from 78% to 91% on 45TB data. The analysis outputs information about new fields, its respective de-identification logic and required updates to existing logic.
- Integrated a new image-model for processing 12M X-Ray dicoms in image de-identification component. Added ad-hoc solutions over time to support required changes.
- Implemented a parsing script to fetch text from PDF files.
- Worked as part of Auth team in order to build access control for the product platform.
- Wrote 60+ APIs across Django models like user, group, organisation, apps and others. Collaborated with members from other teams to fulfil requirements of their apps.

Awiros | Computer Vision and Machine Learning Engineer
Python, C++, TensorFlow, MXNet, Docker |

June 2021 – August 2021

- Studied and analyzed the datasets Casia and Facescrub, having 494k+ and 43k+ images respectively, in terms of class-distribution, aspect-ratio and blur.
- Trained and compared 4 gender classification models, choosing the model with test accuracy of 0.9388 and F1-score of 0.9303 and deployed it using Flask and Docker.
- Collaborated with UI team to automate the task of creating/loading, training and saving models as well as making predictions with the model using MXNet.

Vaultedge Software Pvt. Ltd. | Backend Intern
Python, Flask, MongoDB, Grafana |

March 2021 – May 2021

- Transferred the existing FIFO-Queue job scheduling to Priority-Queue in order to process jobs based on priorities associated with them.
- Implemented a backend to connect MongoDB to Grafana, the visualization tool, serving requests and sending responses containing the required data.
- Designed 6 REST APIs using Flask to serve the requests made by Grafana.
- Formulated 20+ equations to monitor and display the overall system performance.

Skills

Python, GCP
Open-CV, Tesseract, Pandas, Numpy, Matplotlib/Seaborn
Django, Flask, REST, Docker
C++, C
TensorFlow, MXNet
HTML5, CSS3, JavaScript
OCTAVE/MATLAB
SQL, MongoDB

Interests

Computer Vision
Algorithms
System Design
Backend Development
Data Structures
Machine Learning
Data Science

Familiar with

Android Development

Coursework

Machine Learning
Deep Learning
Artificial Intelligence
Computer Vision
Algorithms
Data Structures
DBMS
Operating Systems
Compiler Design
Discrete Mathematics
Probability & Statistics

Profiles

GitHub: anishk74

LinkedIn: anishk74

HackerRank: anishk74

CodeChef: anishk74