Kanav Anand

E: anandkanav92@gmail.com
M: +31647947115
W: anandkanav92.github.io
LinkedIn, Github

Summary

I am a Master Graduate from TU Delft with 3 years of professional experience in developing web applications, big data pipelines and machine learning applications in advertising technology, e-commerce, and the education domain.

Education

TU Delft, MSc in Data Science and Technology(2017-19), CGPA - 7.09
Relevant coursework: Machine learning, Deep learning, Computer Vision, Advanced Algorithms, Supercomputing on Big Data.

Vellore Institute of Technology, Vellore,
Bachelors in Computer Science and Engineering(2010-2014), CGPA - 8.50

Experience

ADI, ML Engineer, Delft, NL — Current

- Core responsibilities include developing a data pipeline to ingest images and develop a deep learning model to detect diseased plants reducing the prior manual detection time from ~48 hours to ~25 minutes.
- Developed an object detection model based on Faster RCNN with ResNet-101 backbone using a detectron2 framework built using PyTorch and open-cv.

InMobi, Software Developer, Bangalore, India — 2015 – 2017 (2 yrs)

- Worked with the Big Data team to shift from pintail to Kafka platform, an open-source platform used for building real-time data pipelines catering over a billion events each day improving the ingestion rate by hours.
- Worked with the USER platform team to develop and test live batch streaming applications for gathering appropriate information about users from terabytes of data, using Spark and Aerospike. This collected information is used for showing relevant ads.

Knolskape, Software Developer, Bangalore, India — 2014 - 2015 (1 yr)

- Worked on a web-based application that is used to evaluate the performance of a relationship manager. My responsibilities included database schema designing, developing back-end using Laravel(PHP) and implementing the front-end using Javascript(Backbone.js). These simulations enabled MNCs to filter out ideal candidates in earlier stages. Simulation Link

Projects

- Dutch Mobility Hackathon 2019, Developed a smart way to recommend passengers possible routes combining private and public modes of transport to prevent crowding during peak hours. My responsibilities included developing a model to predict the crowdedness of every route using the data provided by NS, TomTom, HTM. (***Winner)***
- Black Magic In Deep Learning, Final master thesis to evaluate the role of the human in training a deep learning model. Developed a web interface to React for a user study that enabled the user to select multiple values for hyperparameters and evaluate the training metrics in real-time. *Given a fixed deep learning model architecture, how much does the final performance depends on the person who optimizes the deep network? (spoiler: a lot!)* More information can be found here [*React, PyTORCH, Open-CV*]
- WhoDat, Developed an android application that helps users tag images based on the objects present in the image. It reads out the contents in the image enabling blind people to get an idea about their surroundings. It uses a ResNet-152 model pre-trained on the ILSVRC2012 dataset. demo, web-portal, apk (*Runners-up:* Jacobshack 2018) [*JAVA, PyTorch, Python*]
- Traffic control, In this paper we propose a method of using the available roads more efficient by using sensors in the signal junctions, using weighted graphs and maximal flow algorithms. link 2016
- Join for a cause, An android application that aims to connect individuals to NGOs in the vicinity. They can filter the NGOs based on the type of work they have done in the past. link 2016

Miscellaneous

- Technical skills: Java, Python, PyTorch, Spark, Kafka, SQL, Jenkins, Postgres
- Interests: Deep learning, Football
  Sports and Gaming: runners up at State level basketball annual competition for Delhi, won several tournaments for Counter-Strike 1.6 tournaments while representing VIT, Vellore.