AYUSH GARG

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EXPERIENCE

Data Scientist, HP Inc (R&D)

₩ Sep 2018 - Jul 2021

Pangalore, India

MLOps

March 2021 - July 2021

- Created a framework to standardize architecture of ML projects to reuse code, data and models across multiple teams
- Different inputs and models across different hardware could be stitched together into a pipeline & used for pre-processing, training, validation
- Resulted in cohesive projects that can borrow from each other while increasing maintainability

Predifix (Oct 2018 - July 2021)

PyTorch, pandas, numpy

- Tool to guide Customer Support agents for faster resolution of printer/PC related issues
- Used Long Short Term Memory (LSTM) based Deep Neural Network (DNN) to train a model on 200K tickets
- Helped reduce Average Handling Time by approx 27%

Software Engineer, Centurylink

math Aug 2015 - Sep 2018

Pangalore, India

DeepAssist (Aug 2017 - Aug 2018)

Tensorflow, Numpy, Flask, NLTK, MySQL, AngularJS

- Recommendation engine to increase the efficiency of Ticketing system by suggesting steps for ticket resolution using Neural Network based models
- Used Attention based LSTMs to determine ticket context and recommend the most appropriate steps.

eDeviceConnect (Feb 2016 - Aug 2017)

- Tool to provide manual and automated testing platform for mobile devices
- Created an IDE to upload, test and run BDD projects for automation testing
- Reduced testing time by 150 hrs/month by allowing remote availability of physical devices

PROJECTS

Benchmarking Storage Access Patterns - BeeGFS and CephFS

₩ May 2021

♀ Illinois Tech

- Assess performance and evaluate system overheads of 2 parallel and distributed file-systems: BeeGFS, CephFS
- Benchmarked on varying native file-systems (xfs, ext4, BTRFS) with different workloads and configurations on a cluster of 4 nodes
- Both file-systems had almost no CPU or network overheads with ext4 giving the best results achieving 10% faster speeds over average

Hate-Speech Detection Using Weak Social Supervision

₩ Dec 2020

♥ Illinois Tech

- Text based classification engine to identify hate-speech for social media networks using Weak Social Supervision
- Weak features (likes, comments) generated for unlabeled data supervise the classification of labelled data
- Trained a BertClassification model on Twitter Hate Speech dataset
- With supervision, the f1 score increased by 8%

EDUCATION

MS in Computer Science Illinois Institute of Technology

4.0

Courses Taken: Adv DB Optimization
 Adv OS Design & Analysis of Algos
 Cloud Computing Social N/W Analysis

Teacher's Assistant for OS course

B.Tech in Electronics & Comm Engg Delhi Technological University (DTU)

3.5

- Organized Student Interest Groups & IEEE Students' Branch activities and taught at workshops
- Organizing Member in DTU Tech Fest

SKILLS

Python Pytorch Tensorflow 1.0

Pandas Jupyter JIRA Git MySQL

MongoDB Serverless Computing

Data Structures Parallel File System

Distributed File System System Design

ACHIEVEMENTS



Patent-pending

Machine Learning Based Determination of Troubleshooting Routes Dependent on Product Feature- PCT/US2020/018268



Paper Presentation

"Learning optimal navigation algorithms from customer support case notes" in DSKD (Data Science Conference, HP)-2019



Paper Presentation

"Extracting resolution steps from the unstructured logs" in DSKD (Data Science Conference, HP)-2019



AngelHack

Won Hypertrack challenge at AngelHack Bangalore Hackathon 2018 https://www.hackathon.io/trek-o-hun1

HOBBIES







