

AYUSH GARG

@ sblayush@gmail.com

+1 (312) 843-7683

in linkedin.com/in/sblayush

github.com/sblayush

EXPERIENCE

Data Scientist, HP Inc (R&D)

📅 Sep 2018 – Jul 2021

📍 Bangalore, 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
- Provided interfaces for the modules and abstracted out the event and artifact logging
- 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

📅 Aug 2015 – Sep 2018

📍 Bangalore, India

DeepAssist

📅 Aug 2017 – Aug 2018

🔧 Tensorflow, Numpy, Flask, NLTK, MySQL, AngularJS

- Recommendation engine to increase the efficiency of Ticketing system (*Ticket=issue raised by end user*) by suggesting steps for ticket resolution
- Used Attention based LSTMs to determine ticket context and recommend the most appropriate steps by training on historical tickets
- Model reached an accuracy of about 83%

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

📅 Spring 2022

📊 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)

📅 Spring 2015

📊 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

