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

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
- 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

m 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

Pangalore, 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

Vespid - Serverless platform to host Vertines

Oct 2021-Present

♥ Illinois Tech

- Virtines new abstraction to allow individual functions to run in lightweight, virtual environment
- Created a platform, Vespid, that manages the lifecycle of virtines and provides CLI and GUI to interact with the serverless functions
- Vespid is 30 times faster than OpenWhisk standalone tool

Hate-Speech Detection Using Weak Social Supervision

♀ 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

Master's in Computer Science Illinois Institute of Technology, Chicago, US

4.0/4.0

• Courses Taken: Adv Database Adv OS

Cloud Computing Serverless Computing

S/W Architecture Adv Algo

- TA for OS
- TA for Online Social Network Analysis

B.Tech in Electronics & Comm Engg Delhi Technological University, Delhi, India

Spring 2015

3.5/4.0

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

SKILLS



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







