

SHREYANS DHANKHAR

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EMPLOYMENT

Hewlett-Packard (HP) Inc.

- *Data Scientist*
- *Machine Learning Engineer*

Aug 2018 – Present

Apr 2019 – Present

Aug 2018 – Mar 2019

- *Semi Supervised Sentence Boundary Detection* – Given a unstructured text without any punctuation the aim is to find the sentence boundary.
- *NLP based assistance to customer support agents for troubleshooting PC related problems* – Utilized a probabilistic method to extract the meaningful steps and responses from the unstructured case notes written by the call agents. Once the meaningful steps are extracted then those steps are clustered.
- *NLP based assistance to customer support agents for troubleshooting printer related problems* – Have been part of the team that has developed an LSTM-based next troubleshooting step prediction using the context of printer, its family and issue type. The next step prediction system has been trained on close to 200,000 case notes including the notes from official troubleshooting guide.

Dell Emc

- *Software Engineer-II*

Jun 2017 – Aug 2018

- Worked with File Systems group of EMC product Data Domain Restorer, a backup recovery software.

EDUCATION

Indian Institute of Science (IISc), Bangalore

- *M.Tech from the Department of Computer Science and Automation (CSA)*

Jul 2015 – Jun 2017

Swami Keshavanand Institute of Technology, Management & Gramothan, Jaipur

- *B.Tech in Computer Science Engineering*

Sep 2010 – Jun 2014

TECHNICAL SKILLS

Programming:

Python (Proficient), C, C++ (Intermediate), \LaTeX

Software & Frameworks:

Deep Learning: PyTorch (Proficient), TorchText (Proficient), TorchVision, Keras, Tensorflow

Machine Learning: Scikit-Learn, XGBoost

Others: PySpark (Beginner), Flask (Beginner), Git & GitHub

RESEARCH PROJECTS

■ **Memory Networks for Question Answer System:** A neural network architecture which processes input sequences and questions, forms episodic memories, and generates relevant answers. Our model is able to answer the question asked based on some small paragraph or story where answer can be single word answer or MCQ.

■ **Bloom Filters for Multidimensional Data:** Bloom filters are probabilistic data structures commonly used for approximate membership problems in many areas of Computer Science. This project was mentored by IBM Research Labs India.

OTHER PROJECTS

■ **Ad click prediction:** An Imbalance Classification problem with aim was to predict the click probability of links inside a mailer.

■ **Non-Negative Matrix factorization on facial images:** Given facial images, implemented NMF and tried to generate the image back.

■ **Non-Negative Matrix factorization on Audio:** Given Audio files (Clean, Noise, Noisy) implemented NMF and filtered clean audio and noise from noisy audio file.

GRADUATE COURSES (SPECIFIC TO ML)

- Linear Algebra, Probability and Statistics, Computational Methods of Optimization.
- Machine Learning, Data Mining, Machine Learning for Signal Processing.
- CS224N: Natural Language Processing with Deep Learning.
- CS231n: Convolutional Neural Networks for Visual Recognition
- CS7015: Deep Learning Part-1 and Part-2.

Stanford University.
Stanford University.
NPTEL IIT-Madras

ACHIEVEMENTS AND SCHOLARSHIP

Achievements

- Ranked **26 out of 7200** teams **Top 1 %** in Home Credit Default Risk Kaggle Competition.
- Kaggle Competition Expert

Scholarship

- Graduate Student Scholarship, Indian Institute of Science (IISc)

Jul 2015 – May 2017

CO-CURRICULAR ACTIVITIES AND CERTIFICATION:

Co-Curricular Activities

- Machine Learning Contributor at **Ai4Bharat** a voluntary community focuses on solving India specific AI problems.
- Volunteered at **Analytics Vidhya**, one of the largest analytics community.
- Placement Coordinator for Computer Science Division, IISc Bangalore.
- Student Coordinator of **Data Science Club** at CSA IISc, Bangalore.

Coursera Certification

- Deep Learning Specialization : [Certificate](#)

DECLARATION

I hereby declare that the information written above is correct to the best of my knowledge.

Shreyans Dhankhar