DUSHYANTA DHYANI

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AREAS OF INTEREST

• Machine Learning • NLP • Weak/Semi Supervision in ML • Deep Learning

EDUCATION

M.S. CSE : *The Ohio State University, Columbus, Ohio* **GPA:** 3.795 Aug 2016 - May 2018(Expected)
Courses : Machine Learning, Speech and Language Processing, Computational Linguistics, Natural Language Question Answering, Text Analytics.
B.Tech IT : *National Institute of Technology, Kurukshetra, India.* **GPA** :8.9 July 2010 - June 2014

PUBLICATION/TUTORIALS

Tutorial - A Convolutional Encoder Model for Neural Machine Translation Dec 2017
NIPS Workshop - Learn How To Code A Paper With State Of The Art Frameworks

OhioState at IJCNLP-2017 Task 4: Exploring Neural Architectures for Multilingual Customer Feedback Analysis Dec 2017
Proceedings of the 8th International Joint Conference on Natural Language Processing, Shared Tasks

EXPERIENCE

Graduate Research Assistant, ***The Ohio State University*** Aug 2017 -
Adviser : Prof. Huan Sun

Currently exploring strategies to use noisy, distant supervision data to boost the performance of sentential relation extractors trained on manually labeled data only.

Software Engineering Intern, ***AWS Deep Learning (Amazon AI)*** May 2017 - Aug 2017

As part of the team that built Amazon Comprehend, I worked on the following tasks for deployment of an NLP service (currently not part of the Comprehend suite) on AWS Infrastructure:

- Performing extensive experiments using multiple machine learning models and datasets for the given task along with hyper-parameter optimization.
- Creating end to end Serverless application using various AWS services like Step Functions, Lambda, Elastic Container Service, etc.

Graduate Teaching Assistant, *Introduction to Computer Programming in Java* Spring 2016
Responsibilities include:
• Delivering lectures. • Conducting labs and office hours. • Grading assignments and projects.

Research Assistant
Ubiquitous Knowledge Processing Lab, TU Darmstadt, Germany Jan - June 2015
Adviser : Prof. Iryna Gurevych, *Project* : Automatic Timeline Generation of News Events

Worked on events and participants extraction from News Articles. Used a CRF Classifier along with several NLP based features (syntactic, semantic, word embeddings, etc.) to achieve the following F-1 scores :
Events • ECB+ Corpus - 73.02 % • TimeBank Corpus - 80.78% . ***Participants*** • ECB+ Corpus - 56.51%

Research Associate *Precog Research Group, IIIT-Delhi, India* July 2015 - April 2016
Worked on building a tool for predictive policing as part of a government-funded project. The work involved the Application of statistical techniques to build an interface for effective monitoring & visualization of crime patterns.

Software Engineer *Search Team*, Infoedge India Pvt. Ltd. June-Dec 2014

- Successfully ported the Solr-based backend framework of 99acres.com to Solr Cloud.
- Created Scalable Logging Services to Log Search and Click Data of 99acres.com .

Software Engineering Intern, *Samsung Research*, New Delhi, India June-July 2013

Freelance Software Engineer, FunnelMailApp 2014

TECHNICAL SKILLS

- Java, Python, Matlab, Php, JavaScript, Scikit-Learn, Tensorflow, NLTK, DKPro, OpenCV, Hadoop, Solr

PROJECTS

Stance Detection (Fake News Challenge), Team Name : OSUfnc2017, **Rank**: 7/50 2017

We worked on creating a Random forest based Hierarchical classifier for detecting stance of a (body) text with respect to a news headline. We used a composition of statistical features (word co-occurrence based features & enriched them using semantic ontologies like Wordnet) & embedding based features (spatial similarity measures).

BioNER (Research Project), Advisor : Prof. Huan Sun 2016

Working on improving the state of the art results in Bio-medical Named Entity Recognition for building better QA Systems. Worked on analyzing the performance of various existing tools on Community Health QA Dataset.

Civic Improvement Request Classification Challenge May 2016

As part of the **Living Progress - CrowdAnalytics - Haven OnDemand Prototype** challenge on *Topcoder*, the HP Haven on Demand API was used to create a hierarchical classifier for the task of classifying user requests for civic improvements into predefined categories. The model was ranked *2nd*.

Open Source Contribution 2015

Integrated the **Geodesic Object Proposals** tool into CloudCV's **Object Proposals** library.