Oyesh Mann Singh

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Education

University of Maryland - Baltimore County, MD PhD in Computer Science

Aug 2017 - Dec 2021 (expected) GPA-3.725/4

Lamar University, Beaumont, TX Masters in Computer Science

May 2017 GPA-3.91/4

Technical Skills

- Programming Languages Python, R, SQL, C++, Java, NodeJS
- \bullet Others AWS, Github, PyTorch, NLTK, pandas, sklearn, matplotlib, bash, I $^{\!A}\!T_{\!E}\!X$

Professional Experience

Visiting Research Scholar

Human Language Technology Center of Excellence, JHU, MD

Jun 2019 - Aug 2019

- Increased the entity-tagged dataset volume by 500% by introducing more Wikidata classes and IDF scores in existing Wikipedia framework especially for Chinese and Russian languages
- \bullet Improved the NER F1 score by 4% for Chinese language by pre-training BERT with newly obtained dataset compared to the BERT-base

Data Analytics Intern

Relus Cloud Technologies, Atlanta, GA

Jun 2018 - Aug 2018

• Worked on AWS services (Kinesis, Glue, S3, DynamoDB) to build ETL data flow processing upto quarter million records/seconds for OrangeTheory Fitness and McDonald's

Teaching Assistant

Department of Computer Science, UMBC, MD

Aug 2017 - now

• Worked 20 hrs/week to assist 30-40 students in their course projects of Data Structure, Computer Architecture and Advance Operating Systems

Software Developer

Department of Chemical Engineering, Lamar University, TX

Mar 2015 - May 2017

- Enhanced Chemical Analyzer Barometer(CAB) software by using auto-thresholding technique of Otsu's method and altering kernel size of Canny edge detector using OpenCV/Java
- Improved the usability of Excel Merge Utility software by adding more GUI features and making it easier for PhD students to analyze the data after merging the required parameters from CSV files

Research Projects

• Nepali NER:

Jan 2018

Completed Named Entity Recognition project for low-resource language (Nepali) using deep neural network achieving 86.09 overall F1 score. This is the first such project in Nepali NLP community

• Nepali Text Classification: https://github.com/oya163/oya-nepali-nlp Oct 2018
Completed text classification project to classify Nepali documents achieving up to 78.561% test accuracy

• Data Science 101: https://github.com/oya163/DataScience101 Oct 2018

Participated in Kaggle competition to classify movie reviews and quora insincere questions

• Data Analysis on 311 Dataset: https://github.com/oya163/R-project May 2018

Led a team of four to analyze and build a predictive regression model to estimate the time taken for a neighborhood in Baltimore based on 311 dataset of 3 million records

• eatIn: https://github.com/oya163/eatIn

Oct 2017

Created a web application for kitchen as similar to car hailing service in UMBC Hackathon

• Unsupervised Learning using JigsawPuzzle as pretext task: https://github.com/oya163/oyaTorch/tree/master/JigsawPuzzle Sep 2017

Developed unsupervised classification algorithm for images based on jigsawpuzzle as a pretext task with accuracy 5% less than that of supervised