

Oyesh Mann Singh

Address: 3707 Garnet Street, Torrance, California, 90503

LinkedIn:<http://www.linkedin.com/in/oyeshsingh>

Phone: 4096005899 | Email:oyeshsin@hotmail.com | Github:<https://github.com/oya163/>

Education

University of Maryland Baltimore County, MD

Dec 2020 (expected)

Masters in Computer Science

GPA-3.756/4

Technical Skills

- **Programming Languages** - Python, R, MySQL, PostgreSQL, Java, C++, HTML, CSS, bash
- **Others** - Linux, PyTorch, Github, AWS, NLTK, Pandas, sklearn, Flask, REST API, Docker, Apache Airflow, CI/CD pipeline (Github Actions)

Professional Experience

Research Intern

NAAMII, Nepal

Jun 2020 - Aug 2020

- Developed a non-parametric Bayesian Model for unsupervised morphological segmentation task. Working on to deploy this model as a web app on AWS Elastic Beanstalk following CI/CD pipeline using Github Actions
- Github link - <https://github.com/oya163/gibbs>

Research Intern

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
- 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

- Built ETL data pipeline on AWS platform (Kinesis, Glue, S3, Lambda, DynamoDB) to process streaming data for OrangeTheory Fitness and McDonald's. The scripts were written in python and nodejs

Teaching Assistant

Department of Computer Science, UMBC, MD

Aug 2017 - present

- Worked 20 hrs/week to assist 30-40 students in undergraduate and graduate courses of Data Structure, Computer Architecture, Advance Operating Systems and Data Science

Software Developer

Department of Chemical Engineering, Lamar University, TX

Mar 2015 - May 2017

- Enhanced Chemical Analyzer Barometer(CAB) software based on Java by using auto-thresholding technique of Otsu's method and added more GUI features, adding convenience and increasing efficiency for data analysis

Associate Software Developer

Software Paradigm Infotech, Kathmandu, Nepal

Jan 2013 - Dec 2014

- Successfully completed two projects in COBOL using CMMI level 5 process in Credit Management and Reservation domain for Macy's

Research Projects

- **Nepali Stemmer:** <https://nepali-stemmer.herokuapp.com> Apr 2020
This is a rule-based stemmer in Nepali language. It is hosted on Heroku platform as python-flask web app.
- **Aspect Based Abusive Sentiment Analysis:** Sep 2019
<https://github.com/oya163/nepali-sentiment-analysis> [PRIVATE]
Completed Targeted Aspect Based Abusive Sentiment Analysis project on YouTube comments in Nepali language. Trained multilingual BERT for Aspect Term Extraction and Polarity Classification task.
- **Nepali Named Entity Recognition:** <https://nepner.herokuapp.com/> Feb 2019
Completed NER project for low-resource language (Nepali) achieving 86.9 overall F-score using BiLSTM + Grapheme-level CNN architecture. It is deployed on Heroku platform as a web app
- **Data Analysis on 311 Dataset:** <https://github.com/oya163/R-project> Feb 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.