

Oyesh Mann Singh

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Education

University of Maryland - Baltimore County, MD Aug 2017 - May 2021 (expected)
PhD in Computer Science GPA-3.8/4

Kathmandu Engineering College, Nepal Nov 2011
Bachelors of Engineering in Electronics and Communication GPA-70.11/100

Professional Experience

Data Analytics Intern

Relus Cloud Technologies, Atlanta, GA Jun 2018 - Aug 2018

- Built end-to-end data ingestion pipeline scaling to quarter million records/seconds to enhance ETL(Extract, Transform and Load) process for further data analysis and visualization

Teaching Assistant

Department of Computer Science, UMBC, MD Aug 2017 - May 2018

- Assisting 50 undergraduate students in better understanding their assignments/projects and debugging their codes for Data Structure and Computer Architecture course

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

Associate Software Developer

Software Paradigm Infotech, Kathmandu, Nepal Jan 2013 - Dec 2014

- Analyzed the business logic by gathering the requirements from on-site client in order to modify the existing code in Credit Management System (CMS) and Reservation & Delivery System (RDS) projects
- Successfully completed CMS and RDS projects using CMMI level 5 (Capability Maturity Model Integration) model with strong appreciations from on-site and offshore managers

Projects

- Nepali Documents Classification:** Oct 2018
<https://github.com/oya163/oya-nepali-nlp>
Working on Attention Network mechanism to classify documents in Nepali language while gaining bottom-up knowledge from unicode data corpus creation to applying deep learning algorithms
- Data Science 101:** <https://github.com/oya163/DataScience101> Oct 2018
Working on a team for movie sentiment analysis applying various machine learning algorithms along with different word embedding techniques
- 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 with a team of three for kitchen hailing service as similar to car hailing service of Uber in UMBC Hackathon
- Unsupervised Learning using JigsawPuzzle as pretext task:** Sep 2017
<https://github.com/oya163/oyaTorch/tree/master/JigsawPuzzle>
Developed unsupervised learning algorithm for ImageNet classification task based on jigsawpuzzle as a pretext task with accuracy 5% less than that of supervised

Technical Skills

- Programming Languages** - Python, R, SQL
- Others** - Git, PyTorch, NLTK, PySpark, Pandas, AWS services, Jupyter Notebook, matplotlib, \LaTeX