

Rajat Handa

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Work Experience

- Data Scientist** *November 2018 – Present*
Nowigence, New York, USA
 - Build duplication and relevancy classifier pipeline to find duplicate and relevant news.
 - Identify entities like person name, geo-location, organization etc. (NER) in client specific news.
 - Implement topic modelling based extractive summarizer to generate summaries about each news.
 - Extract morphological patterns from news to generate automatic alerts, news digest and reports.
 - Design REST API using Flask for connecting React.js with Python.
 - Retrieve raw news from third party terminals into MongoDB and Elasticsearch knowledge base.
 - Tools:** Python, Flask, Jinja, Elastic, MongoDB, Digital Ocean, Mongo Atlas
- Natural Language Processing Intern** *October 2018 – Nov 2018*
Nowigence, New York, USA
 - Developed multi-document topic identification framework for identifying topics being discussed about each client in news.
 - Tools:** Python, Elastic, AWS
- Data & Operation Research Scientist Intern** *January 2018 – May 2018*
Principal Global Equities, USA
 - Performed planning and forecasting process to rank portfolios using Universal Selection strategy.
 - Researched and evaluated various feature engineering techniques to compare stocks among different sectors.
 - Tools:** Python, R, Tableau, Facets
- Graduate Research Assistant** *September 2016 – December 2017*
Engineering Education & Cyber-Learning Lab, George Mason University, Virginia, USA
 - Developed a machine learning framework for gender inference (individual (female, male), organization) on Twitter (#ilooklikeanengineer) using tweet text (LIWC) and image (CNNs) with machine learning algorithms (SVM, Random Forest).
 - Classified topics discussed across Twitter using LDA.
 - Tools:** Python, R, SQL, D3.js, HTML/CSS, Gephi, Google Fusion Tables, AWS
 - Publications:** <https://scholar.google.com/citations?user=ZeCtXe0AAAAJ&hl=en&oi=sra>

Education

- Master’s (M.S.) Data Analytics | George Mason University | (GPA: - 3.9)** *August 2016- May 2018*
 - Courses:** Machine Learning, Natural Language Processing, Statistics, Social Media Analytics
- Bachelor’s (B.S.) Computer Science | University of Pune | (GPA: -3.55)** *August 2011- May 2015*
 - Courses:** Data Structure and Algorithms, Database Management Systems, Advanced Database

Technical Skills

- Languages:** Python, R, Shell Script, D3.js, HTML/CSS
- Python Data Stack:** Scikit, NLTK, Spacy, Gensim, Numpy, Pandas, Pytorch, Keras, fastai, Mongoengine, Flask, Jinja
- Databases** SQL, Elastic Search, MongoDB
- Cloud Services:** AWS, Digital Ocean, Mongo Atlas

Projects

- Problem: Classifying Toxic Comments i.e. comments that are rude, disrespectful or otherwise likely to make someone leave a discussion to help improve online conversation:**
 - Vectorized words using Word2vec and Glove.
 - Implemented multi-layer neural network using LSTM and GRU.
 - Tools:** Python, AWS, Keras
- Named Entity Recognizer App:** <https://coolcaught.herokuapp.com>