AKSHAY KULKARNI

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Available: May - Dec 2019

EDUCATION

NORTHEASTERN UNIVERSITY

Boston, MA.

Khoury College of Computer and Information Sciences

Sep 2018 - Present

Candidate for Master of Science [M.S.] in Data Science

Expected Grad: May 2020

Related Courses: Algorithms, Data Management and Processing, Information Retrieval

BIRLA INSTITUTE OF TECHNOLOGY & SCIENCE, PILANI – DUBAI CAMPUS

Dubai, U.A.E.

B.E. [Hons] in Electronics and Communications Engineering

Related Courses: Digital Image Processing, Communication Systems

Aug 2012 - Jul 2016

TECHNICAL PROFICIENCY

Languages: Python | R | SQL | NoSQL | C | Octave | MATLAB | Java | JavaScript | HTML | CSS

Tools: IntelliJ IDEA and PyCharm | RStudio | Jupyter | Git | Docker | Tableau | Advanced Excel & Office | MySQL | SQLite | Apache Lucene |

Libraries: NumPy | Pandas | Scikit-Learn | TensorFlow | Keras | NLTK | Nnet | rpart | klaR | e1701 | randomForest | kernlab

WORK EXPERIENCE

NORTHEASTERN UNIVERSITY - Graduate Teaching Assistant {Data Collection, Integration and Analysis}

Boston, MA.

Assisting the professors by tutoring 90+ students during recitations/Labs

Jan 2019 – May 2019

- Designing coursework and assignments, evaluating student projects and providing learning support to students.
- Guiding and teaching students individually or in small groups to help them master assignments and to reinforce learning concepts such as tidying ,storing and analysing data, employing modelling techniques regression, clustering and other machine learning techniques in R.

PREDIKLY - Junior Analyst

Pune, India.

Learned & assisted in generating statistics and visualizations and dashboards for projects like
 Cloud based collaboration platform for CA/CPA/CS to manage their Practice online with cutting edge
 BI Tools like Tableau and assisted in building predictive analytics solutions.

Aug 2017 - Jan 2018

ZIO TECHNOLOGIES L.L.C - Sales and Statistics Intern

Dubai, U.A.E.

 Acquisitioned, managed and analysed product statistics/data for projects and tender submissions and assisted on Systems and AV integration for large scale projects in Dubai for the Government of Dubai and other major sites. Aug 2015 – Jan 2016

INFRATECH CONTROLS L.L.C. - Projects Research Intern

Dubai, U.A.E.

Sales and on-site assistance on projects in B.M.S. (Building management systems)
 Installations in various business and healthcare sites in Dubai.

May 2014 - Aug 2014

ACADEMIC PROJECTS

Building a complete Information Retrieval Model.

Jan 2019 - Apr 2019

Implemented an information retrieval model in Python and using Lucene, using several ranking algorithms such as BM25,QLM & Vector Space to rank parsed and cleaned documents, while optimizing the search engine by employing stopping, stemming as well as pseudo-relevance feedback algorithms, query expansion via Word2Vec-trained embeddings & generating summarization with Luhn's algorithm.

Implementing a Web Crawler and Parsing and Tokenizing, Ranking Scraped pages.

Jan 2019 - Feb 2019

 Built a comprehensive web-crawler Python to retrieve links from a specified wiki seed page while also scraping the text from crawled pages for cleaning, tokenization & analysis to generate corpus text statistics. as well as implemented Google's PageRank algorithm from scratch to rank the crawled pages. as part of a larger aim to build a complete search/retrieval engine

Analysis of Human Development in India using IHDS-II dataset

Oct 2018 - Dec 2018

Utilised R and its tools to collect clean and explore factors affecting human development in rural India in two different time frames of 2005-06 and 2011-12. Using generalised logistic regression models and random forest models to predict the trend of various factors on a range of indicators including factors affecting women's employment and agricultural and business yield.

Sentiment Analysis of Trump Speeches for 2015-16:

Sep 2018 – Oct 2018

Imported and analyse all the speeches made by Donald Trump from the time
of his decision to run till his inaugural speech while taking office, and performed data processing and
n-gram analysis on words most used and the their tone, nature and impact

Twitter Personality Insights with IBM Watson API:

May 2018 – Jun 2018

• Utilised Python to interact and make calls to the Twitter API to pull tweets from different users and run them through IBM Watson Personality Insights in order to analyze different characteristic traits shared between Twitter user's posts.