UMANG MEHTA

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EDUCATION

Master's Degree in Data Science   **MAY 2019**
School of Informatics Computing and Engineering(SICE), Indiana University, Bloomington
Major Courses: Advanced NLP, Machine Learning, Data Mining, Social Media Mining, Elements of AI, Deep Learning Systems. GPA: 3.6

Bachelor's Degree in Computer Engineering   **MAY 2013**
K J Somaiya College of Engineering(KJSCE), Mumbai University, India (GPA: Not on 4.0 Scale)

WORK EXPERIENCE

Kelley School of Business, Bloomington, IN   **JUNE 2018 - PRESENT**
Graduate Research Assistant
- Research and implement NLP methods to extract information from SEC Filings.
- Develop or implement models using ML and NLP to analyze model and board leadership of companies.

AriaData Inc.(Aridat), Bloomington, IN   **FEB 2018 - PRESENT**
Chief NLP Research Engineer(Unpaid Position)
- Build an analytics engine to determine the critical reception of an artists work based on chatter on social media.
- Leading the research and implementation of advanced NLP methods to improvise the analytics.

Vitruvian Technologies Pvt. Ltd.(VTPL), Mumbai(India)   **JUNE 2014 - JULY 2017**
Senior Developer & Team Mentor
- Collaborated in a team of 12 for project development including Java Programming, Data Structure & Database Design, Web Design & Development and Unit Testing for web-based ERP & CRM systems in Real Estate domain.
- Lead, trained and mentored a sub-team of 5 throughout the development of the projects.

Algonation, Mumbai(India)   **JUNE 2013 - MAY 2014**
Co-founder, Developer
- Developed websites, web portals and mobile apps for small and medium scale enterprises.
- Built server software for customized TCP Layer Protocols for cloud-based industrial requirements.
- Mentored and trained multiple groups of 3-4 undergraduate interns for developing industry level projects.

TECHNICAL SKILLS & CERTIFICATIONS

Languages	: Java (4 yrs), Scala (1 yr), Groovy (1 yr), C/C++, Python (1 yr), Javascript (4 yrs), R, MATLAB
Database	: **RDBMS**- MySQL(4 yrs), PostgreSQL, Oracle; **NoSQL**- MongoDB, Neo4J, Apache Solr(1 yr), Elasticsearch, Redis
Frameworks	: TensorFlow, Keras, DL4J, ND4J, Scikit-Learn, NumPy, SciPy, Pandas, NetworkX, Spring, Hibernate, Play
NLP & Big Data	: **NLP**- NLTK, Stanford CoreNLP, Spacy, OpenNLP, Spark NLP, Polyglot; **Big Data**- Hadoop, Spark
Certification	: Oracle Certified JavaSE6 Programmer (OCPJP)
Servers	: Apache 2, Apache Tomcat 7-8, NodeJS, Netty, Openfire
OS & Cloud	: Linux(Ubuntu), Windows, MacOS, Amazon Web Services(AWS), Google Cloud Services(GCS)

ACADEMIC PROJECTS

Neural Conversational Model — *Seq2Seq Learning using LSTM/RNN*   **AUG 2018 - DEC 2018**
- Build a Proof of Concept for Seq2Seq Learning using LSTM/RNN on Java using DL4J and optimize the performance using HPC optimization and distributed Big Data Systems like Hadoop and Spark.

OpenIE — *Open-Domain Information Extraction*   **MAY 2018 - PRESENT**
- Working for this research project under a computational linguistics faculty at IU Prof. Damir Cavar for processing unstructured text and extract data, knowledge, entities, relations and mapping out event information.
- Enabling semantic search with concept abstraction and linking concepts to concepts in large knowledge graphs like YAGO, DBPedia and Microsoft Concept Graph.

Speech Prosody and Pragmatics — *Detecting Prosody and Pragmatics of spoken language*   **MAY 2018 - PRESENT**
- Working under a computational linguistics faculty at IU Prof. Damir Cavar for research focusing on prosody, intonation contour detection, focus and stress pattern analysis for the processing of semantic and pragmatic aspects of spoken language.

Twitter Sentiment Analysis — *Data Mining and Social Media Mining Mini Project*   **JAN 2018 - APRIL 2018**
- Developed a Data Preprocessing module using NLTK with steps involving POS Tagging, Stop Words Removal, Stemming and Lemmatization, Negation Handling, N-gram and Sentiment Scoring using AFINN and TextBlob.
- Built Sentiment Classifier using Naïve Bayes and Logistic Regression to classify tweets as +1, 0 and -1 with 87.89% accuracy.

LEADERSHIP & EXTRA CURRICULAR

- Elected and working as the President and Treasurer of the Data Science Club at Indiana University.
- Organized hackathon for analyzing the opioid crisis in collaboration with SPEA at Indiana University.
- Won 2 consecutive Annual Fall Chili Cook-offs in 2017 and 2018 organized by SICE at Indiana University.
- Organized Technical and Cultural Festivals in KJSCE as Creative Head of the Organizing Committee.
- As a hobby writer, got my poetic verses published in Kshitij, the Annual College Magazine of KJSCE.