

UMANG MEHTA

Location: Chicago, IL
umangrmehta.github.io

Email: umangrmehta@gmail.com
linkedin.com/in/umangrmehta

Cell: +1 (812) 955-9507
github.com/umangrmehta

EDUCATION

Master's Degree in Data Science

MAY 2019

Luddy 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 a 4.0 Scale)

WORK EXPERIENCE

Capital One, Chicago, IL

JAN 2020 - PRESENT

Data Engineer (Contractor)

- Developing Data Processing Pipeline using Apache Spark and Scala to process Credit Card Requests in batches with joining data from other sources and APIs and make the final output available for Card Embossing Process
- Integrating Streaming Data Pipeline using Apache Kafka as an alternative option to batch processing in various data pipelines

Hello Nesh Inc.(Nesh), Houston, TX

JUNE 2019 - OCT 2019

Data Scientist - NLP & AI

- Built Conversational AI agent in Python for Oil and Gas domain
- Developed Knowledge Extraction pipeline for public documents with Semantic Extraction using NER, Constituent Parsing with Rasa NLU & Spacy and built a Knowledge Graph using Dgraph, GraphQL to represent the extracted knowledge
- Extracted topics from public documents using Gensim & TextRazor and linked them to entities in Knowledge Graph
- Conceptualized and built PoC of Diagnostic and Predictive Analytics Engine for Oil Well Failure using E-M, MLE and MAP
- Trained and deployed text classifiers with Word Embeddings, LSTM, BERT using TensorFlow, Keras on AWS Sagemaker

Kelley School of Business at Indiana University, Bloomington, IN

JUNE 2018 - MAY 2019

Graduate Research Assistant under Prof. Matthew Josefy

- Research and implement NLP methods to extract relevant information from SEC Filings using Python
- Develop or implement models using ML and NLP to analyze the business model and board leadership structure of companies
- Built Text Classifiers using NLTK and SciKit-Learn with around 90% accuracy measured with 10-Fold Cross Validation

AriaData Inc. (Aridat), Bloomington, IN

FEB 2018 - MAY 2019

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 using Python
- Leading the research and implementation of advanced NLP methods to improvise the analytics
- 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 for feature engineering
- Built Sentiment Classifier using an ensemble of Naïve Bayes and Logistic Regression to classify tweets with 87.89% accuracy

Vitruvian Technologies Pvt. Ltd. (Realty Redefined), Mumbai, India

JUNE 2014 - JULY 2017

Senior Developer & Team Mentor

- Collaborated in a team of 12 for project development including Java and Scala Programming, Data Structure & Database Design in MySQL, 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 using Java and PHP
- Built server software for customized TCP Layer Protocols for cloud-based industrial requirements using Java
- Mentored and trained multiple groups of 3-4 undergraduate interns for developing industry level projects

Research Innovation Incubation Design Laboratory (Riidl), Mumbai, India

JUNE 2012 - MAY 2013

Software Engineer Intern

- Developed web-based ERP application for educational institutes using HTML, CSS, Bootstrap, Javascript and PHP
- Designed the data structures & schema and managed the database transactions using MySQL
- Built mobile app for the ERP using Java Android SDK for Android phones and Java ME for Java-based feature phones

TECHNICAL SKILLS & CERTIFICATIONS

Languages	: Java (5 yrs), Javascript (5 yrs), Scala (1 yr), Groovy (1 yr), Python (1 yr), C/C++, R, MATLAB, GraphQL, Gremlin
Database	: RDBMS- MySQL(5 yrs), PostgreSQL, Oracle; NoSQL- MongoDB, Neo4J, JanusGraph, Dgraph, Apache Solr(1 yr)
Frameworks	: TensorFlow, Keras, DL4J, ND4J, Scikit-Learn, NumPy, SciPy, Pandas, Flask, Dash(Plotly), Spring, Hibernate
NLP & Big Data	: NLP- Rasa, NLTK, Stanford CoreNLP, Spacy, OpenNLP, Polyglot, Gensim; Big Data- Hadoop, Spark, Kafka
Certification	: Oracle Certified JavaSE6 Programmer (OCPJP)
Servers	: WildFly 15, Apache 2, Apache Tomcat 7 & 8, NodeJS, Netty, Openfire, Nginx
Deployment	: Docker, Kubernetes, AWS EC2, AWS Lambda, AWS Sagemaker, AWS S3, Google Cloud Compute Engine
OS & Cloud	: Ubuntu(Linux), Windows, macOS, Amazon Web Services(AWS), Google Cloud Platform