KUMARI KIRTI

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Technical Skills

- Programming Language: C, R
- Scripting Language: Perl, Python
- Database:Mysql,MongoDB, Orient DB
- Big Data : Spark
- Libraries:
  - Python : Scikit, Numpy, Pandas, Gensim, Nltk, TextBlob, Fuzzy wuzzy, Pyspark, Matplotlib, beautifulSoup, keras, theano etc
  - R: Tm, openNLP, rjava, snowballc, bracketx, caret, nnet, Bioconductor etc.
- Other Skills: Natural Language Processing (NLP), Machine learning, MS Office suite.

Professional Experience:

Organization: eClerx, Mumbai

Role: Senior Analyst (Machine Learning) (Nov 2017 – Present)

Past Employer:

Organization: The Smart Cube, Noida

Role: Senior Domain Analyst (Data Analytics, Beta) (Dec 2016 – Oct 2017)

Projects:

1. **Social Network Analysis (Telecommunications)**

   This project aims at doing social network analysis by building social graph from call details records of customers communicating with each other across different geographies.

   Project Management: Jira

   Codebase: Gitlab, Jenkins

   Technology and Library: Spark, Hadoop, Cloudera, Pyspark (2.1.0), Graphframes (0.5.0), Newtorkx,Pandas.

   Role:
   1. Mining household communities through community detection algorithm.
   2. Parameter optimization, modularizing of household detection algorithm and grid search implementation.
   3. Implement pairwise node-operators for social graph for predictive modelling.

2. **Risk Analysis(Text Mining)**

   This project helps at doing risk analysis of news feed thereby helping stakeholders in mitigating associated risks.
   Technology used: APIs (Bing News API, Alchemy API, Sentiment API), PostgresSQL, Python (Scikit, Pandas etc)
   1. Developing algorithm for identification of duplicate news.
   2. Optimizing the existing algorithm for improving information retrieval and false positives at the stage Of sentiment tagging and relevant news identification.

Past Employer:

Organization: Innoplexus Consulting Services, Gurgaon

Role: Associate Data Scientist (Dec, 2015 - Oct 14th, 2016)

Projects:

1. **Clarity**

   This product aimed at doing root cause analysis for discontinuation of drugs so as to improve patient compliance Thereby mitigating risks for pharmaceutical companies.
   1. Data source identification, data preprocessing and structuring of unstructured data.
   2. Algorithm development for doing aspect based sentiment analysis, social media analysis, weak signal analysis, root cause analysis.
   3. Coordination with Science and front-end team for development of product & to ensure end-to-end demand of the clients.

2. **Touchpoint**

   This product aimed at developing ontology based search engine for discovery management of Key Opinion Leaders (KOLs) in Life Sciences industry.
   1. Feature engineering for finding key attributes related to KOLs.
   2. Optimizing the existing algorithm to improve information retrieval and false positives.
   3. Name normalization to improve ambiguity related to similar profile of KOLs.

Past Employer:
 Organization: Algoscale Technologies Private Limited, Ghaziabad
 Role: Data Scientist (Jun 2015 to Dec 2015)
 Projects:

1. **Knowledge Discovery from Email**

   To discover knowledge from email data with POC implementation on Enron
   data. Role:
   1. RDBMS integration, Orient dB Integration, Mathematical modeling for sentiment analysis.
   2. Developing graph for Network visualization.

2. **Predicting Demographics of User Visiting a Website**
   To predict demographics (Gender, age, likes and dislikes) of users visiting for a website.
    Role: Curation of users' data from relevant sites, preprocessing and mathematical modelling using NLP.

3. **Data Analysis** Power **Consumption Model**

   To maximize hot aisle temperature to prevent setting off fire suppression system in Data center.
    Role: Primary research on the overall layout of Data center, correlation analysis and neural network analysis.

Industrial Internship

1) **Indian Institute of Scientific Education and Research, Kolkata (IISER Kolkata)** (May 2014-Jul 2014)
   Project: "Ancestral sequences reconstruction using Hidden Markov Model and data mining principles" under
   National Network for Mathematics and Computational Biology (NNMCB) Program organized by IISC Bangalore.
2) **Mylan Inc. Research and Development Unit, Hyderabad, Andhra Pradesh** (Jan, 2012-Jun, 2012)
   Project: "QUALITY RISK MANAGEMENT (PHARMACEUTICAL APPLICATIONS).

Research Projects

1. M tech Thesis on Classification of influenza virus based on machine learning and data mining.

2. Quality Risk Management: This project aimed at assessing risk associated during product development cycle of a
    drug. It was a part of Practice School Program of BITS Pilani.

Educational Qualification

- M.Tech(IT with specialization in Bioinformatics) from Indian Institute of Information Technology (IIIT
  Allahabad) With CGPA 9.10 in June, 2015.
- Bachelor of Pharmacy Hons from BITS Pilani with CGPA 6.61/10 in December, 2012.
- Secured 81.33 percent in 12 Class and 89 percent in class 10.