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RAMAN AHUJA

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EDUCATION

Arizona State University – Master of Science in Computer Science

August 2018 – Present

- GPA : N.A.
- Courses: Foundations of Algorithms [CSE 551], Fundamental of Stat. Learning [CSE576], Natural Language Processing [CSE569]

Visvesvaraya National Institute of Technology – Bachelor of Technology in Computer Science & Engineering **July 2012 – April 2016**

- GPA : 7.80/10
- Electives: Analysis of Algorithms, Data Mining-Warehousing ,Neuro-Fuzzy Techniques, Information Retrieval, Artificial Intelligence

SKILLS AND TECHNOLOGIES

- Programming & Databases: Java , Python, C, MySQL, Amazon Redshift, Oracle SQL 11g
- Frameworks & Tools: Jenkins, AWS, Git, Numpy, Pandas, Scikit-learn, MATLAB, OCTAVE, IntelliJ

WORK EXPERIENCE

Associate Software Engineer | Numerify, India

August 2016 – June 2018

Performance Optimizing Engine for Petabyte Scale Real Time Analytics:

- Developed a highly scalable distribution and sorting framework for millions of records on columnar databases to boost analytical queries, system was **deployed for 30 + tenants** and **reduced daily ETL batch processing time from ~10 hrs to ~6hrs**

- Implemented compression encoding to reduce disk I/O & storage which increased Real Time Analytics performance by 60%

Enterprise Level Feedback Driven Decision Making Platform:

- Built an extractor pipeline for Microsoft-Yammer cloud source to pull scheduled data by continuous streaming
- Trained ML models on features like feedback texts, groups, incidents to detect the bottlenecks from unstructured data
- Built intuitive dashboards on MicoStrategy cubes which led to **20% faster resolution of incident tickets**

Healthcare Infrastructure Outage Analytics Engine:

- Built a predictive model which progressively gets trained on historic incidents, to build RCA trends on critical client outages
- Architected the data warehouse model and developed an ETL pipeline which runs daily on ~20 million records
- Developed interactive dashboards to find actionable insights on outage trends that **elevated outage prevention by ~2x**

Software Development Intern | DoboZ, India

May 2015 – July 2015

- Designed and developed an android application for digital wallet as a service. Implemented loyalty points program, rewards and incentives, and gift cards purchase-sale on platform

ONGOING PROJECT - Conversational Question Answering System (CoQA)

Sept 2018

- Developing a novel architecture for machines to answer series of interconnected questions in a conversation using Bi-Directional Attention flow and LSTM (Encoder-Decoder) networks

PROJECTS

Enhanced Naïve Bayes Model for Text Categorization

July 2015 – May 2016

- Developed an novel approach for text based categorization on linear Naïve Bayes classifier at par to state-of-art complex models
- Achieved accuracy of 85.1% on IMDB dataset. Model incorporates N-grams, negation handling , feature selection

Information Retrieval – Indexing Engine

November 2015

- Developed a distributed system on Hadoop MapReduce framework for construction of inverted index on large scale documents, to improve search query performance. Implemented pre-processing techniques using NLP constructs to improving ranking.

Data Mining – Criminal Hotspots

August 2016

- Developed interactive analysis of historic crimes by hotspot detection & classification of risk terrains using clustering algorithms

KAGGLE PROJECTS

Intruder Detection Through Webpage Session Tracking - [Python(numpy, pandas, scipy, scikit-learn, matplotlib)]

- Predicted whether a webpage session belongs to legitimate user or someone else, by training ML models on sequence of historical visits, used sequential pattern mining techniques

House Price Prediction - [Python (numpy, pandas, scikit-learn – RandomForestRegressor, matplotlib)]

- Predicted Sales price of each house, used feature engineering and advanced regression techniques to reach RMSE of 0.12

INITIATIVES AND RESPONSIBILITIES

Numerify | Training Across the teams on AWS project

February 2018

Visvesvaraya National Institute of Technology | Student Council – Training and Placement Secretary

June 2015 - May 2016

ACHIEVEMENTS

- Received **“Star of Month – April 2018”** at Numerify, for Impeccable performance on developing optimization engine which reduced AWS infrastructure cost of organisation by 30%