Ketan Patil

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Education

Arizona State University

MASTERS IN COMPUTER SCIENCE, GPA = 4   *Intended Graduate- May 2020*
- Current Courses - Statistical Machine Learning, Distributed Database System, Data Visualization.
- Completed Courses - Introduction to Artificial Intelligence, Foundation of Algorithms, Mobile Computing.

College of Engineering, Pune

B.TECH IN COMPUTER SCIENCE & INFORMATION TECHNOLOGY, RANKED IN TOP 10, GPA = 8.1 OUT OF 10   *August 2012 - May 2016*
- Courses :- Information Retrieval, Introduction to Business Analytics, Operating System, Data Mining, Big Data and Cloud, Algorithms and Complexity, Web Development, Principles of Programming Language, Calculus, Probability and Statistics.

Skills

PROGRAMMING LANGUAGE
- Python, Java, Android Application development, R, C, AngularJS, HTML, PDDL.

DATABASES
- Impala, MySQL, PL/SQL, SQLite.

FRAMEWORKS/LIBRARIES
- Numpy, Pandas, Scikit Learn, Tensorflow, Matplotlib, DJango, Flask, Weka, D3, ButterKnife, Parecelables, Retrofit2, OkHttp, GSON.

Work Experience

Credit Suisse

TECHNOLOGY ANALYST IN RISK AND FINANCE IT   *July 2017 - July 2018*
- Designed a dashboard using **AngularJS** for business users with analysis of **70 TB** live market data in the graphical and tabular form which is useful for trading in the Market Risk Devision. Engineered bespoke email alerts to inform major discrepancies in trades spontaneously.
- Developed a summary email dashboard using machine learning models built with **LDA, Tensorflow, and Contextual Analysis in python**. Created dashboard used for showcasing analytical view and efficiency calculation of around 10k employees helped the organization to bring down the manual monitoring efforts by **40%**.

TECHNOLOGY ANALYST IN GROUP FINANCE DOMAIN   *July 2016 - June 2017*
- Analyzed batch performance and failure patterns with an aim to identify trends and causes in 10 years of historical PeopleSoft Batch data using Impala database with the help of **Random Forest for classification and Naive Bayes clustering algorithms**.
- **Communicated** new ideas and strategies over email to team of 32 members spread across different geographical locations.

Credit Suisse

INTERN   *May 2015 - July 2015*
- Applied **text mining on Credit Risk market production data** for predicting Credit Score of relevant counter-parties using domain knowledge and analytical skills. Intern Member of **organizing team** who organized Classroom training and speaker series with higher management.

Academic Projects

INTELLIGENT PACMAN AGENT PROJECT, AI   *Fall 2018*
- Implemented graph search algorithms such as **BFS, DFS, UCS and A-star algorithms and heuristics** in python. Utilized dynamic programming algorithm for solving Bellman-Ford equation in Markov decision process setting. Used **Bayesian Networks** technique to solve ghost-buster. Programmed reinforcement learning algorithms such as value iteration and Q-learning.

MACHINE LEARNING BENCH-MARKING, MOBILE COMPUTING   *Fall 2018*
- Developed an Android application which implements 4 machine learning algorithms on **Cloud and mobile CPU** then compares the result.

VISITOR MANAGEMENT ANALYSIS SYSTEM   *Aug. 2015 - May 2016*
- Worked on a **Django Python Web framework** to develop a dashboard with the incorporation of **support vector machine algorithm** to provide a better insight of hospitals, colleges and hotels visitors to organizations and present summarized data using statistical charts.

FUZZY MATCHING, SIMILARITY AND IDENTITY MATCH BETWEEN VARIETY OF DOCUMENTS   *Fall 2014*
- Trained a Latent Semantic Analysis model to develop a system to identify relevant set from pool of documents using keywords based search.

MOVIE SENTIMENT ANALYSIS BASED ON PUBLIC TWEETS   *Fall 2014*
- Developed a dashboard to showcase Sentiment Analysis in **python** of the movie tweets which were gathered from Twitter using **API**.

RESTAURNT FINDER   *Jan. 2014 - May 2015*
- Developed an **Android application** which offers a convenient way to find restaurants based on the user's current location within given perimeter and importantly provides sentiment analysis drawn on text-mined data from reviews of that restaurant.

Awards & Achievements

- **Winner of hackathon Android coding competition** held across all the universities within the state by Credit-Suisse Pvt. Ltd.
- Member of runner up Chess State Level Championship School team.