

PAWAN PATIL

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SUMMARY

Computer Science graduate student with aptitude in solving technical problems. Interested in software development and applying my skills in the real-world. Seeking **Summer Internship 2017** that utilises my abilities and to give my best to the organisation.

EDUCATION

Masters of Science in Computer Science

Arizona State University, Tempe, AZ

Expected May 2018

Bachelors of Science in Computer Science

Sri Jayachamarajendra College of Engineering (SJCE), Mysore, India

May 2016

TECHNICAL SKILLS

Programming Languages: C++, C, Python, Java, HTML, CSS

Applications: MATLAB, MySQL, Eclipse

Relevant Courses:

- Statistical Machine Learning
- Computer System Security
- Applied Cryptography
- Object Oriented Programming
- Principles of Programming Languages
- Foundations of Algorithms

ACADEMIC PROJECTS

User preference based recommendation (of restaurants) [Python]

Fall 2016

- Pre-processed the reviews for each restaurant using POS tagging and Word2Vec
- Implemented sentiment analysis on the reviews to extract polarity of the reviews
- Implemented Nearest Neighbour and evaluated the recommendation engine with SVR (MSE: 0.316) and Linear Regression (MSE: 0.285)

Spell-checker with GUI [Java]

Spring 2017

- Built a desktop application which checks multiple input files against a dictionary
- Prompts the user to add new words to the dictionary
- Coded using the **MVC architecture**

Feature selection on KDD cup dataset [MATLAB, Python]

Spring 2016

- A benchmark Dataset from DARPA containing 0.5 million records with 41 features
- Applied information gain and entropy calculation method to filter irrelevant features
- Applied K-means on full dataset (41 features) and reduced dataset (16 features)
- Improved and achieved accuracy of ~68% in full dataset and ~76% in reduced dataset

A simple compiler [C++]

Fall 2016

- Developed a simple compiler using first and follow logic
- Functionality: parsing assignment, relational, print and switch statements

KNN algorithm for Face Detection [Python]

Fall 2016

- Implemented K-Nearest Neighbour algorithm from scratch on dataset containing bitmap images in matrix form (each row is value of each pixel in image)
- Analysed training data error (~25%) and testing data error (~46%)

Congestion Control [C]

Fall 2015

- Programmed TCP Tahoe (slow start) algorithm for congestion control in TCP which uses additive increase and multiplicative decrease strategy
- Analysed the algorithm to avoid network congestion

Web Designing [HTML, CSS, JavaScript]

Spring 2015

- Built an interactive web designing tutorial website (similar to w3schools.com) on local machine for educational purpose
- Tutorials about HTML, CSS & JavaScript