YASHIKA GOYAL

ygoyal2@uic.edu | (312)539-6571 | http://www.linkedin.com/in/goyalyashika | https://github.com/iyashikagoyal
Graduate Student at University of Illinois at Chicago

EDUCATION

Masters of Science in Computer Science **August 2017 - May 2019**
University of Illinois at Chicago, Illinois **GPA:** 3.33/4
Coursework: Data Science, Artificial Intelligence, Computer Algorithms, Database Systems

Bachelors of Technology in Computer Science **August 2013 - May 2017**
Guru Nanak Dev University, India **GPA:** 3.63/4

TECHNICAL SKILLS

Languages: Python(Pandas, numpy, scikit, matplot), Java, C, SQL, HTML, CSS, JavaScript, JESS/FuzzyJess, Netica
Database: MYSQL, TeraData, MongoDB, Sqlite, Excel
Framework: Spring MVC, NetBeans, MySQL, Apache Tomcat, Apache Solr

PROFESSIONAL EXPERIENCE

Research Assistant , *IIITD* **New Delhi, India** **Jan 2017 - July 2017**
- Extended an existing project based on Spring MVC framework to record attendance of mobile users in different areas of the campus.
- The system is real time software which collates and processes the data received from the NMS.The processed data is further used to localize the student and thus, keeping the track of student's attendance.
- The front end is developed using HTML, CSS and JS and back end is developed, maintained and managed on MongoDB. The application runs on Apache Tomcat Server.
- The application was a team project developed in an agile environment.

Software Developer Intern, *Zenatix Solutions* **Gurugram, India** **May 2016 – July 2016**
- Enhanced the front end visualization of the ongoing project employing HTML, CSS and JavaScript.
- Worked with customers to understand their analytical requirements.
- Supported new customers with the deployment of the services provided by the company.

PROJECTS

City Of Chicago **Jan 2018- April 2018**
- Extracted the census, demographics, crime, weather about the city of Chicago, and restaurants in Zip Code 60654 from Yelp .
- Used SQL Queries to integrate, analyst and clean the data.
- Performed Sentiment Analysis on the yelp data, and predict the review ratings.
- Calculated the viability of business after a failed food inspection by integrating the business and food inspection data.
- Integrated the food inspection and yelp data to get the relationship between the results and review ratings.
- Created a website to visualize the analyzed data using JavaScript, and OpenStreetMap(OSM).

Loan Application Evaluation Engine **Jan 2018- May 2018**
- Created an automated system to evaluate the loan application and recommend whether the loan should be approved.
- Developed the automated system using JESS API on Eclipse, and used NETICA to implement the Bayesian Network.

Decision Tree Learner **Nov 2017- Dec 2017**
- Implemented Decision Tree Learning Algorithm with chi-pruning which takes set of examples as input and returns a decision.

Utility-based Agent **Oct 2017- Nov 2017**
- Created an utility-based agent for decision problems in Stochastic environment implementing Value Iteration and Policy Iteration Algorithms in Python given a Markov Decision Process.

15-puzzle Solver **Sept 2017- Oct 2017**
- Implemented optimal search programs in Java using BFS, DFS, Iterative Deepening Search and A* search Algorithms searching the state space for optimal solution of solving a 15-puzzle.

Library Management System **Feb 2015- April 2015**
- Created a system in JavaScript and Mysql to keep tracks of the library books.
- Took measures to prevent SQL injection.
- Used hashing to maximize throughput.

PUBLICATIONS

- Co-authored a paper 'Study and Analytical Perspective on Big Data' which is accepted and published in International Journal of Computational Systems Engineering. This dissertation deeply emphasize on Application and tools of BigData across various domains to achieve societal and economical benefit. In this fast growing world where accurate insights are the primary needs, this paper discuss about the accomplishment of Big Data in various fields.