Pawandeep Singh

225 East 95th St, Apt 32D
New York NY – 10128

singh@alumni.emory.edu
(678)-557-0528

Education

Emory University — Atlanta, GA
M.S. In Computer Science (Machine Learning Concentration) — Aug 2013 - May 2015

- Completed courses: System Programming, Data Mining, Machine Learning, Numerical Analysis, Applied Linear Models, Big Data Analytics, Natural Language Processing, Theory of Computing, Parallel Processing

Guru Tegh Bahadur Institute of Technology — New Delhi, India
Bachelor of Technology in Computer Science — Aug 2007 - May 2011

- Completed courses: Artificial Intelligence, Object Oriented Programming Concepts, Data Structures, DBMS

Work Experience

Emory University — Atlanta, GA
Research Assistant — June 2014- Nov 2015

- Performed analysis of complexity of global law personnel data, measuring entropy and structure of the documents in python.
- Performed data wrangling, munging, auditing and parsing using pandas, numpy to ensure data quality.

Infosys Limited — Jaipur, India
Systems Engineer — Sep 2011-June 2013

- Worked as part of the offshore team for a major aircraft manufacturer on their Data Delivery Program to deliver relevant data according to individual airline plane configuration. Delivered a file splitting module to split transaction files to ensure parallel processing of transaction and hence reducing the transaction time by over 50%.
- Performed unit testing of individual components as new features were added and automated them using junit.
- Worked mostly on Java, Oracle 9i, IBM Websphere MQ/MB, XML, SQL, Junit, SVN.

Academic Projects

Early Alzheimer's Detection (EAD) — Nov 2013 - Dec 2013

- Developed machine learning models using naive bayes, svm and neural networks in matlab to classify people based on their performance on a web based test using mouse tracking and clicking data.
- Further optimized the model using feature extraction,normalization and optimized bias-variance tradeoff.

Predictive Modeling of Drug Sensitivity — April 2014 - May 2014

- Developed regression, elastic nets and neural networks to model drug sensitivity in different cancer cell lines and what pathways does it affect in order to provide customized treatment of individual patients.

Google Entity Recognition and Disambiguation challenge — Nov 2014 - Dec 2014

- Participated in the challenge as part of the course project and developed a entity disambiguator with nominal accuracy using NER to find the entities and freebase to extend the lexicon. Used github for project collaboration and maven for the build.

Technical Skills

- **Languages:** *C, Java, Python, R, Matlab, Pig, HTML/CSS, SQL, XML,Bash scripting.*
- **Libraries & Frameworks:** *pandas, numpy, sklearn, Mallet, OpenMPI, Bootstrap, J2EE, grunt.js*
- **Tools & Platforms**: Git, MongoDB, MySQL, Hadoop, Heroku, Postgres
- **Domain:** Machine Learning, Data Mining, Predictive Analytics, Natural Language Processing.

Github: github.com/singhpawan **LinkedIn:** linkedin.com/in/mepawandeep **Website:** www.singhpawan.com