Himanshu Taneja

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401 Stasney St Apt 304, College Station, Texas 77840

OBJECTIVE Seeking internship for summer 2017

EDUCATION

Texas A&M University, College Station, Texas — May 2018 (Tentative)
Masters of Science in Electrical Engineering
GPA: 4.0

USICT, GGS Indraprastha University, New Delhi, India — May 2016
Bachelor of Technology in Electronics and Communication Engineering
Cumulative Performance Index: 74.85/100 (3rd in the class)

SKILLS

Programming Languages
Proficient in Python, C++, R, Matlab
Some experience with C, Java, SQL, Bash, Awk

Tools and Libraries
Git, Regular Expressions, Apache Spark, Microsoft Excel, NLTK, scikit-learn

ACADEMIC PROJECTS

Importance of Text in News Stories (Thesis) — Nov 2016 – Present
Adviser: Dr. Ruihong Huang

- Gathering and analyzing news stories from digital platforms such as Reddit, CNN & FoxNews
- Identifying the attributes that differentiate front page news from other stories; to design a model that can suggest top news stories to the editors

Classification of Stacking Fault Energy of Alloys — Sep – Nov 2016
Language used: R

- Analyzed the effect of chemical composition of Steel alloys on their Stacking Fault Energy (SFE)
- Identified most significant elements affecting SFE of alloys using T-test and Principal Component Analysis
- Trained and benchmarked the classification algorithms (Linear Discriminant Analysis, K-Nearest Neighbors, and Support Vector Machines) on the dataset

Automatic Text Classification and Summarization — Jun – Aug 2015
Language used: C++

- Developed a text classifier using machine learning algorithms (Naive Bayes, K-Nearest Neighbors, and Support Vector Machines)
- Implemented a method to generate summary of a text article using a sentence ranking system: ‘term frequency-inverse sentence frequency’
- Techniques used: stop-words removal, stemming, term frequency-inverse document frequency, additive smoothing

OTHER PROJECTS

Image Enigma: Encrypt Digital Images
Implemented the Enigma Machine (a polyalphabetic cipher) in Python and engineered it to encrypt digital images

Person of Interest
Analyzed Enron dataset in Python using machine learning algorithms to identify persons of interest in the Enron Scandal

VocabList: A cross-platform application
Developed a cross-platform GUI application using Kivy Framework in Python to maintain a database of words for improving vocabulary

Email in Context Menu
Designed a context menu for Openbox Desktop Environment to display emails; the application can run as a daemon to periodically get new emails

ACTIVITIES

TechSpace (Technical Club at USICT) — Jan 2014 – May 2016

- Organized InfoXpression (Annual technical fest) and monthly LAN Gaming Contests
- Presented seminar on “Python Programming Language in Data Science”