Avisha Das

PhD, Department of Computer Science, University of Houston

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Objectives:

I am seeking a **Research internship position** at a company where my strong analytical and problem solving skills will be utilized. A hard-working and self-motivated Computer Science Graduate Student, I have experience in **Data Mining, Natural Language Processing, Big Data Analytics, Machine Learning and Security Analytics** have used these techniques both as part of my research and also through advanced projects.

EDUCATION

Pursuing PhD in Computer Science at University of Houston August 2014- Present
Specialization: Data Analytics in Security and Defense

West Bengal University of Technology August 2010- August 2014

Bachelor of Technology in Electronics and Communication Engineering (2010 - 2014)
Specialization: VLSI and Semiconductors

RESEARCH

Graduate Teaching and Research Assistant and System Administrator (ReDAS Lab, Department of Computer Science, University of Houston)

TA for Data Structures and Algorithms
Project: *Link Analysis using Machine Learning Algorithms*: Detection and extraction of URLs from emails and datasets using Online Learning Algorithms. I used NLP techniques to build automatic feature extractors for URLs extracted by web and email inbox crawlers. The OL algorithms are used to classify the URLs based on the feature extractors.

Sys. Admin. Experience: Maintenance of Ubuntu System Server, NSF Funded Websites: capex.cs.uh.edu, ciare.cs.uh.edu, spsl.cs.uh.edu, sfs.cs.uh.edu.

TECHNICAL SKILLS

Languages: Python, C/C++, R, Ruby, Java
Scripting: Windows Powershell, Linux Shell
Software: MATLAB, WEKA, LaTex, Standard NLP tools, Eclipse, Web Development using Drupal, Hadoop

RELEVANT P R O J E C T S

Analysis and classification of Phishing URLs using Machine Learning and Online Learning Algorithms: Primary research project that involves the use of character n-grams from URLs for link analysis and detection of URL nature (malicious or benign) by applying online learning algorithms on the extracted features.
Machine Assisted Semantic Understanding of Code: This project is targeted towards developing a source code understanding scheme for developers working on an already developed code base. Our implementation takes into account the source codes written in Python and tries to solve the problem of semantic understanding.
Python Projects: (i) Deep learning and Language Modelling (NLP) (ii) Language Identification of Twitter Data (NLP) (iii) Sentiment Analysis of Hotel Reviews (NLP), (iv) Implementation of Apriori Algorithm for Pattern Mining
Java Projects: (i) Mini Search Engine Implementation, (ii) Android Application: Stock Inventory Implementation
C/C++ Projects: (i) Server-Client socket programming and communication, (ii) Hotel booking portal
Shared Task: Building datasets for Fake Review and Opinion Spamming

AWARDS AND HONORS

- **Poster presenter** at Grace Hopper Conference for Celebration of Women (2016) – Analyzing Phishing URLs
- Recipient of Women in Cyber Security(WiCYS'16) Scholarship (2016)
- **Poster presenter** at WiCyS'16 (2016) – Are Legit and Phishing URLs similar? Hell No! – Lexical characterization and Analysis of URLs
- Recipient of 2016 CRA-W Grad Cohort Workshop Scholarship (2016)
- **Poster presenter** at 2016 Grad Cohort Workshop Scholarship (2016) – Studying Phishing URLs the NLP way
- Recipient of the Scheme of Scholarship for College and University Students, India (2010-2014)

LINKS

- **LinkedIn**: www.linkedin.com/in/avisha-das-29728a130