Avisha Das

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EDUCATION

UNIVERSITY OF HOUSTON
PH.D. IN COMPUTER SCIENCE
Expected May 2020 | Houston, TX
Cum. GPA: 3.6/4.0
Research Interests
Data Analytics, Information Retrival
Machine Learning, NLP
Deep Learning, Language generation

WEST BENGAL UNI. OF TECH.
B.TECH IN ELECT. & COMM. ENGG.
July 2014 | Kolkata, India
Major GPA: 9.18 / 10.0

PROFILES

Github:// **dasavisha**
LinkedIn:// **avishadas**

COURSEWORK

GRADUATE
Machine Learning
Data Mining
Advanced Numerical Analysis
Security Analytics
NLP and Adavanced NLP
Statistical Methods in Research

TECHNICAL SKILLS

LANGUAGES
Python • R • MatLab • Shell
C/C++ • C# • Java • Ruby • LaTeX

LIBRARIES
Data Mining
Weka • NLTK • SciKitLearn • SciPy
Deep Learning
Theano • TensorFlow • Keras

OTHER
MS Visual Studio • AWS • MS Azure
• Docker • SQL • MongoDB
• Slurm •Linux

MISCELLANEOUS

• System Admin at ReDAS Lab@UH (2015-Present)
• Organizer Anti-Phishing Shared Task at IWSPA'18

EXPERIENCE

UNIVERSITY OF HOUSTON | GRADUATE ASSISTANT
August 2016 – Present | Houston, TX

- **Building and modeling deep neural learners for automated email generation and analyzing performance and feasibility as a proactive security research problem.**
- **Courses as TA**: Data Structures & Algorithms, Software Engineering & Design, Security Analytics, Computer Org. & Arch.

ANADARKO PETROLEUM CORPORATION | DATA SCIENCE INTERN
May 2019 – Aug 2019 | Houston, TX

- Leveraging natural language processing techniques for building a virtual assistant for digital operations and field development.

HALLIBURTON ENERGY SERVICES | DATA SCIENCE INTERN
Jun 2018 – Aug 2018 | Houston, TX

- Predictive modeling for automated detection of tool failure and system maintenance in a timely manner.

2H OFFSHORE INC. | DATA SCIENCE INTERN
Jun 2017 – Aug 2017 | Houston, TX

- Predictive analytics using ANN time series based model for fast, reliable and effective Fatigue Damage Estimation in Offshore Drilling Riser Technology.

PUBLICATIONS

- Modeling Coherency in Generated Emails by Leveraging Deep Neural Learners, *Computación y Sistemas (CyS) Journal* **[To appear]**
- SoK: Reexamining Phishing and Spear Phishing Detection Research from the Security Perspective, *IEEE Surveys and Tutorials Journal 2019* **[Under review]**
- Automated Email Generation for Targeted Attacks using Natural Language, *TA-COS at LREC-2018*
- Identifying Reference Spans, Discourse Facets and Summarizing: Experiments with Language Models, Transfer Learning and Entailment, *Scientometrics Journal*, *IR-2018*
- University of Houston @ CL-SciSumm 2017: Positional language Models, Structural Correspondence Learning and Textual Entailment, *BIRNDL at SIGIR-2017* (*Shared Task*)
- What's In an Address: Fast Feature Extraction and Detection of Malicious URLS, *IWSPA at CODASPY-2017*
- What's in a URL: Fast Feature Extraction and Detection of Malicious URLs, *WiCyS-2017* (*Poster*)
- Detection and classification of Phishing URLs, *GHC-2017* (*Poster*)

AWARDS

Scholarships

2014-2018	Doctoral Student Fellowship	University of Houston
2010-2014	Scholarship for Undergraduate	MHRD,India

Travel Grants/Misc.

2017	Intl. Wkshp. on Security and Privacy Analytics	Author
2016-2017	Women in CyberSecurity	Scholar