ABU AWAL MD SHOEB

A passionate, innovative technologist with research, data science and leadership experience

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EXPERIENCE

Machine Learning Research Scientist
3M Health Information Systems (HIS)

📅 April 2021 - Present   📍 New Jersey

- My work mostly involves analyzing unstructured text data and developing different predictive models by harnessing state-of-the-art NLP models. At 3M, my daily job includes researching unstructured clinical notes and building methodologies for document segmentation, annotations, and classifications.

Research and Teaching Assistants
Rutgers University

📅 2015 - 2021   📍 New Brunswick, New Jersey

Summer Research Intern
Nokia Bell Labs

📅 Summer 2018 & 2017   📍 Murry Hill, New Jersey

- Analyzed data containing users' requirements and job descriptions to allocate optimal resources from a shared GPU cluster
- Developed a module for Bell Lab's internal Deep Learning Training System to reduce the overall training time of jobs and released it under a heterogeneous cluster using Kubernetes
- Technologies: Python, Kubernetes, Ansible, Grafana, Docker

Software Engineer Intern
Medsnap LLC

📅 Summer 2015 & 2014   📍 Birmingham, Alabama

- Researched drug-related data and images and developed a visualization tool to help to identify counterfeit medication
- Technologies: Vagrant, PHP, Amazon EC2, d3, JavaScript, MSSQL

Graduate Research Assistant
University of Alabama at Birmingham (UAB)

📅 Fall 2013 - Spring 2015   📍 Birmingham, Alabama

- Analyzed millions of spam email data points and developed a clustering algorithm to identify major spam email campaigns
- Developed a tool to collect performance-related data from Amazon EC2 and proposed instances by analyzing user-specific job requirements

Founder & CEO
Criss Cross Computers

📅 2011 – 2020   📍 Sylhet, Bangladesh

- Developed and implemented the first online service for students at SUST to make payments and withdraw transcripts

EDUCATION

Ph.D. in Computer Science
Rutgers University

📅 Spring 2021   📍 New Brunswick, NJ

- Thesis Title: Computational Methods to Understand the Association between Emojis and Emotions [PDF]

M.Sc. in Computer and Info. Sciences
University of Alabama at Birmingham (UAB)

📅 Spring 2015   📍 Birmingham, AL

RECENT PUBLICATIONS

Selected First Authored Paper

- Assessing Emoji Use in Modern Text Processing Tools 🧑🏾‍💻, ACL 2021 [Paper] [Github]
- EmoTag1200 👍 : Understanding the Association between Emojis 😄 and Emotions 😍, EMNLP 2020 [Paper] [Video] [Github]

ACTIVITIES

Graduate Mentor, Rutgers University
Douglass DIMACS Computing Corps (DDCC)

PC Member and Reviewer:
ACL, EMNLP, CoNLL, SocialNLP, Computational Intelligence

IBE Certification
Institute for Biomedical Entrepreneurship

📅 2019   📍 Boston, MA

President
Rutgers Graduate Student Association (GSA)

📅 2016-17   📍 New Brunswick, NJ

Emerging Young Talents
Prothom Alo - major daily newspaper

📅 April 2010   📍 Bangladesh

- For coordinating and developing first mobile SMS based registration system for undergraduate admission in Bangladesh

SKILLS

Languages: Python, Java, Scala, C, PHP, HTML, JavaScript, CSS, SQL **Technologies:** AWS, PyTorch, HuggingFace, Docker, Git, Kubernetes, WEKA, Jupyter Notebook