Shamikh Hossain

GitHub : shamikh-mill; **Blog** : shamikh.tech; **LinkedIn** : shamikh

(469) 386-1378
ssh50@duke.edu

experience

Energy Data Analytics Lab, Duke University— *Research Fellow*

May 2017 - Present

Working to apply deep-learning methods on aerial imagery in NSF-funded research under Dr. Kyle Bradbury. Curated training dataset to develop classifier for evaluating electricity access from satellite images using scikit-learn, TensorFlow, Matlab, ArcGIS. Continuing research to develop model through academic year. Open-source dataset can be found here.

Office of Information Technology, Duke Biology— *IT Consultant*

September 2016 - June 2017

Provide tailored software and hardware support for research computing in the Biology dept. by researching technical issues, writing internal documentation, maintaining external wiki, and automating installations

Duke Student Organization Finance, Durham, NC— *Auditor*

September 2016 - May 2017

Analyze consumption metrics of campus organizations to help school administration determine optimal allocation of resources

education

Duke University, Durham, NC - B.S, Computer Science, B.S, Economics

August 2016 - May 2020

projects

Biology IT Inventory - Web platform/REST API built on Django, PostgreSQL to track loaner equipment inventory and users for Biology IT helpdesk

HitChecker - Python/Tkinter program using Amazon Mechanical Turk API to allow a user to evaluate crowdsourced image annotations from their desktop

DAMUN Website - Created new conference website for Model UN school organization, website was awarded grant from UN Foundation of America

Web Tutorial Series - maintained YouTube channel of tutorials on computer software and graphic design, accumulated 185,000+ video views

skills

Software: Python, Java, Ruby

Data: NumPy, SciPy, pandas, scikit-learn, matplotlib, R, Matlab, Excel, Jupyter

Web: HTML/CSS/JavaScript, Rails, Django, Flask, Node.js

General: Git, Linux, scripting

courses

Data Structures & Algorithms, Microeconomics, Computer Architecture, Linear Algebra for Computer Science, Multivariable Calculus for Economics, Energy Data Analytics Lab

Independent Coursework:
Lynda: Django
Enthought: NumPy

other

University Dean's List
National AP Scholar
IB® Diploma Recipient
Burger King Scholar
YouTube Partner