Mushfiqur Rahman, M.E.S.M.

Data Scientist

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SUMMARY

Motivated data scientist with an environmental background seeking to apply computer programming, data science, and machine learning skills to solve complex problems. With proven leadership in driving results and influencing senior leaders while collaborating with cross-functional teams, I am passionate about expanding my impact to other industries.

SKILLS

Computer: Data Science with Python: pandas, NumPy, matplotlib, Seaborn, Machine Learning (scikit-learn), Deep Learning (TensorFLow), Cloud Computing (Amazon Web Services EC2 & RDS); MySQL; Natural Language Processing (NLTK), NetworkX; Jira; SAP; Visio; SharePoint; MS Office; Google Workspace; ArcGIS

Project Management: UCSB's Project Initiation, Planning, and Integration course (1 of 6 toward PMP certification)

Leadership: Completed SoCalGas's Leadership Training Camp then effectively deployed its servant leadership philosophy

Languages: Bangla - intermediate, Spanish - beginner, Arabic - beginner

PROFESSIONAL EXPERIENCE

Environmental Field Services Team Lead for SoCalGas Environmental: Anaheim, CA   June 2016 - June 2018
1. Headed annual environmental KPI reporting for 5 natural gas underground storage fields and 3 storage departments with >95% compliance including Aliso Canyon storage field valued at $769 million
2. Led 5 Environmental Specialists and hired / trained 5 specialists
3. Continued aiding Aliso Canyon SS-25 gas leak project that triggered evacuation of 8,000 nearby families
4. Consulted and assisted commissioning of new electric driven compressors for the $200 million Aliso Canyon Turbine Replacement project

Senior Environmental Specialist for SoCalGas Storage: Chatsworth, CA   December 2014 - June 2016
1. Secured environmental compliance of gas utility operations for 5 natural gas storage fields
2. Provided essential support for Aliso Canyon's SS-25 natural gas leak: was a critical stakeholder including support for 6 well kill attempts; managed environmental contractors; headed a team of 4 to escort daily air quality inspections; collaborated with C-suite, legal, SMEs, consultants
3. Executed operations audits; interfaced with government inspectors; provided project support; updated environmental plans; and analyzed government regulations for applicability

Environmental Compliance Specialist for SoCalGas Distribution: Oxnard, CA   March 2011 - December 2014
1. Ensured environmental compliance of gas utility operations within a ~15K square mile region
2. Audited operations; responded to government agencies; created HazMat Business Plans for 18 facilities
3. Delivered in-person annual training to 10 specialty groups spanning Management, Operations and Engineering

PORTFOLIO - https://github.com/lflrnr/Portfolio

Project 3 - Rohingya and Twitter Data   February 2022

Initiated project with AWS setup constructed and will be posted on completion

Skills: Python; Twitter API; Tweepy; MySQL, AWS EC2 and RDS, Pandas; Vader; NLTK; Matplotlib; Seaborn
1. Investigate sentiments and trending topics of Rohingya refugees scraping Twitter's API and create a dashboard website to be run on AWS cloud computing services including AWS EC2 and AWS RDS

Project 2 - Rohingya and Hope   December 2021

Skills: Python; scikit-learn; Pandas; Numpy; Matplotlib; Seaborn; Data Munging/Data Cleaning; Feature Engineering; Machine Learning, Grid Search & Cross Validation, and Model Performance Evaluation
1. A survey by Xchange of perceptions of adult refugees was assessed by building machine learning models to determine strongest predictors of hope

2. Evaluated Machine Learning classifiers: SVC, K-Nearest Neighbors, Naive Bayes (MultinomialNB), Decision Tree Classifier, Random Forest, AdaBoost, and Gradient Boosting with 80% accuracy achieved

Project 1 - Rohingya Humanitarian Operations in Cox's Bazar, Bangladesh   October 2021
Skills: Python, Pandas, Numpy, Matplotlib, Seaborn, Networkx and Pyvis
1. Generated descriptive statistics and visuals from Inter Sector Coordination Group data on monthly operational activities for refugee camps

EDUCATION

Master of Environmental Science and Management – University of California, Santa Barbara   June 2009
    <u>Notable Coursework</u>: Statistics and Data Analysis; GIS; Earth System Science; Environmental Law; Environmental Economics; Web Mapping (KML); Grant Writing; Green Supply Chain Management; Life Cycle Analysis (GaBi)
Bachelor of Science in Applied Ecology – University of California, Irvine   June 2005

CERTIFICATES - https://github.com/lflrnr/Certificates

1.	Google TensorFlow Developer Certificate (currently preparing for exam)	Pending
2.	2021 Python for Machine Learning & Data Science Masterclass certificate: Udemy	11/30/2021
3.	Applied Data Science with Python (5 course certificate): Coursera - University of Michigan	09/03/2021
4.	Statistics with Python 3 (3 course certificate): Coursera - University of Michigan	01/09/2021
5.	Python 3 Programming (5 course certificate): Coursera - University of Michigan	11/06/2020
6.	Python for Everybody (5 course certificate): Coursera - University of Michigan	09/04/2020
7.	Product Management - Scrum and Jira: Lynda	06/29/2020
8.	Analyzing and Visualizing Data with Power BI: edX - Microsoft	06/13/2020
9.	Agile with Atlassian Jira (1 course certificate): Coursera - Atlassian	05/22/2020
10.	Python (3 courses): edX - Microsoft	05/02/2020
11.	Logic and Computational Thinking: edX - Microsoft	03/31/2020