

Mushfiqur Rahman, M.E.S.M.

mushfiqmesm@gmail.com | (949) 351-7577 | Irvine, CA | [linkedin.com/in/mushy](https://www.linkedin.com/in/mushy) | github.com/lflnr

SUMMARY

Motivated Python practitioner seeking to deliver data informed products and insights. With a growing set of new technology tools and proven leadership in driving results while collaborating with cross-functional teams, I seek to expand my impact. I am tech savvy, a fast learner, live an active lifestyle and look forward to new challenges.

PROFESSIONAL EXPERIENCE

Founder, Smushy Apps: Irvine, CA

June 2018 - Present

- Founded seed-funded startup - developed business idea for unique smartphone application
- Studied deep learning and presently preparing for Google's TensorFlow Developer Certificate exam
- Acquired certificates in Python, data science and machine learning to uptrain skill set and develop portfolio
- Moved to Vancouver, Canada for nearly 3 years and then returned to the U.S.

Environmental Team Lead for SoCalGas (nation's largest natural gas utility): Anaheim, CA

June 2016 - June 2018

- 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 - contributed critical data for annual Corporate Social Responsibility Reports, averted fines and potential for litigation, informed management of trends
- Reduced consultant spend by >50% by hiring and training 5 environmental specialists
- Continued aiding [Aliso Canyon SS-25 gas leak](#) project that triggered evacuation of 8,000 nearby families
 - a. Developed framework and flowchart for reporting releases to government agencies
 - b. Implemented complex capture and disposal process of project hazardous and non-hazardous waste
 - c. Supplied critical information and insights to several post incident investigations
- Consulted and assisted commissioning of new electric driven compressors for \$200 million [Aliso Canyon Turbine Replacement](#) project

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

Senior Environmental Specialist for SoCalGas Storage: Chatsworth, CA

December 2014 - June 2016

- Secured environmental compliance of gas utility operations for 5 natural gas storage fields
- Provided essential assistance for Aliso Canyon's SS-25 natural gas leak: was a crucial stakeholder including support for 6 well kill attempts; managed environmental contractors; supervised a team of 4 to escort daily air quality inspections; collaborated with C-suite, legal, Subject Matter Experts, consultants
- Executed audits; interfaced with government inspectors; capital project; updated environmental plans; and analyzed government regulations for applicability

Environmental Compliance Specialist for SoCalGas Distribution: Oxnard, CA

March 2011 - December 2014

- Ensured environmental compliance of gas utility operations within a ~15K square mile region and achieved 95%+ KPI thereby reduced business interruptions
- Audited operations; responded to government agencies; created HazMat Business Plans for 18 facilities with Visio
- Delivered in-person annual training to 10 specialty groups spanning Management, Operations and Engineering

PROJECTS - <https://github.com/lflnr/Portfolio>

Project 5 - Rohingya and Twitter Data

May 2022

Initiated project, AWS setup constructed, preliminary code posted to Github Portfolio

Skills: Python; Twitter API; Tweepy; MySQL; Cloud Computing - AWS EC2 and RDS, Pandas; Natural Language Processing - Vader & NLTK; Matplotlib; Seaborn; TensorFlow

- 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 4 - Rohingya and Summary Statistics

April 2022

Skills: Python; Data science - Pandas, Numpy, Matplotlib; Database - SQLite

- Visualized simple summary statistics from the main dataset of humanitarian operational activities in the Rohingya refugee camps in Cox's Bazaar, Bangladesh, utilized SQLite database within Python

Project 3 - Rohingya and Hope

December 2021

Skills: Python; Data science - Pandas, Numpy, Matplotlib, Seaborn; Data Munging/Data Cleaning; Feature Engineering; Machine Learning - scikit-learn, Grid Search & Cross Validation, and Model Performance Evaluation

- A survey by Xchange of perceptions of adult refugees was assessed by building machine learning models to determine strongest predictors of hope
- 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 2 - Rohingya Humanitarian Operations in Cox's Bazar, Bangladesh

October 2021

Skills: Python, Pandas, Numpy, Matplotlib, Seaborn, Networkx and Pyvis

- Generated descriptive statistics and visuals from Inter Sector Coordination Group data on monthly operational activities for refugee camps

Project 1 - Global Warming for Two U.S. Counties over 120 years

July 2021

Skills: Python, Pandas, Matplotlib and Seaborn

- Crafted visual comparing average monthly temperatures for the past 120 years for Orange County, California and Washtenaw County, Michigan to assess presence of global warming trend

CERTIFICATES - <https://github.com/lflnr/Certificates>

1. Complete Python Developer in 2022 - Zero to Mastery: Udemey	In progress
2. Google TensorFlow Developer Certificate (currently preparing for exam)	In progress
3. 2021 Python for Machine Learning & Data Science Masterclass certificate: Udemey	11/30/2021
4. Applied Data Science with Python (5 course certificate): Coursera - University of Michigan	09/03/2021
5. Statistics with Python 3 (3 course certificate): Coursera - University of Michigan	01/09/2021
6. Python 3 Programming (5 course certificate): Coursera - University of Michigan	11/06/2020
7. Python for Everybody (5 course certificate): Coursera - University of Michigan	09/04/2020
8. Product Management - Scrum and Jira: Lynda	06/29/2020
9. Analyzing and Visualizing Data with Power BI: edX - Microsoft	06/13/2020
10. Agile with Atlassian Jira (1 course certificate): Coursera - Atlassian	05/22/2020
11. Python (3 courses): edX - Microsoft	05/02/2020
12. Logic and Computational Thinking: edX - Microsoft	03/31/2020

EDUCATION

Master of Environmental Science and Management | University of California, Santa Barbara June 2009

Notable Coursework: 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

PERSONAL INTERESTS

Chasing my 5 year old, running, mountain biking, gardening