Redowan DELOWAR
Data Scientist | Instructor

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Individual with 1.5 years of professional experience in Data Science, Machine Learning and exceptional skill to communicate complex concepts across disparate business units. Seeking the job of a Data Engineer to utilize expertise in data management, manipulation, visualization, predictive modeling and deployment.

PROFESSIONAL EXPERIENCE

Present - September 2018

Data Scientist, SHOPUP, Dhaka
> Build pipelines with state of the art techniques to ingest, model and analyze massive flow of data from online and mobile user activity to create models to achieve business objectives
> Work on projects that use cutting edge statistical modeling, time series prediction, machine learning techniques and optimization algorithms to analyze collected data
> Work on optimization, scalability and performance of existing data infrastructure
> Extract/transform/load (ETL) and ongoing maintenance of third party data in a Python environment
> Coordinate effectively with team members in engineering, design, and product management
> Develop data visualizations/dashboards that communicate findings
> Develop, deploy and maintain ad-hoc microservices

ETL | Data Management | Data Processing | Time Series Analysis | Predictive Modeling | Microservices

SKILLS

Programming Languages	**Python**, **Shell Scripting**, **Go** (Novice)
Database Technology	Microsoft SQL Server, **MySQL**, Google Cloud SQL, Google Big Query, **MongoDB**, Redis
Infrastructure	**Docker**, Mesos, **Celery**, Faktory, Heroku Dynos, **Sentry**, Data Dog, **Asyncio**, Gevent, Cortex
Statistical Analysis	**Numpy**, **Scipy**, Statsmodels, **Scikit-learn**, **PyMC3**, Pyro, Auto sklearn, Cloud Auto ML, Data Robot
Dataframe Manipulation	**Pandas**, **Modin**, Dask, Swifter
Time-series Analysis	**Prophet**, **Tsfresh**
Image Processing	**OpenCV**, **Pillow**, Scikit-image, SimpleCV, Mahotas, Pgmagick
Text Processing	**NLTK**, **SpaCy**, **Gensim**, Polyglot
Deeplearning Frameworks	**Tensorflow** (Keras Wrapper), Pytorch (Novice)
Data Visualization	Matplotlib, **Seaborn**, Pyviz, Altair, **Plotly**, **Dash**, Streamlit, Networkx, Gephi, Bokeh, Pygal, **Metabase**
Web Development	**Flask**, **Scrapy**, BeautifulSoup, Selenium
Development Tools	**Jupyter Notebook**, **VS Code**, Vim, **Git**, DVC, Dbeaver, Robo3t, Postman

EDUCATION

2018 - 2014   **BSc. in EEE**, Ahsanullah University of Science and Technology
CGPA : 3.49 out of 4.00

2013 - 2011   **Higher Secondary Certificate**, Notre Dame College
GPA : 5.00 out of 5.00

2009 - 2011   **Secondary School Certificate**, Engineering University Higher Secondary School
GPA : 5.00 out of 5.00

💻 PROJECTS

RUNNING AND MANAGING BASH SNIPPETS ON UNIX SERVERS   2020

🔾 github.com/rednafi/rush

> CLI tool for managing and running **Bash** scripts
> Save and run aliases for **Docker** commands
> Replacing **Makefiles** with pure Bash scripting

`Python3` `Poetry` `Bash`

DIGIT GENERATION AND CLASSIFICATION FOR BANGLADESHI LICENSE PLATE DETECTION   2019

🔾 github.com/rednafi/prinumco

> Collected 107 unique Bangla fonts and programmatically generated 2500 images of Bengali digits
> Collected 1500 real images of license plates and cropped out individual digits
> Applied 40 types of data augmentation on both the real and programmatically generated image sets to generate 200k synthetic images
> Constructed a **MobileNetV2** based CNN architecture for digit recognition
> Validated the model on real digit dataset

`Python3` `Keras` `Plotly Express` `Augmentor`

AUDIO TAGGING   2019

🔾 github.com/rednafi/urban-sound-classification

> Audio feature extraction in the form of MFCC, Spectogram, Zero crossing points, Spectral rolloff etc
> Classification and inference via CNN based **Xception** model
> Deployment via **Flask** on **Heroku**

`Python3` `Keras` `Matplotlib` `Plotly`

INDOOR MOVEMENT PREDICTION   2019

🔾 github.com/rednafi/indoor-movement-prediction

> Predicting user movements from temporal streams of RSS measured between the nodes of a WSN
> Incorporation of gradient boosting based ensemble models for movement type recognition
> Demonstration via **Streamlit** on **Heroku**

`Python3` `Scikit-learn` `Plotly`

AUTOMATING GITHUB PROJECT INITIALIZATION   2019

🔾 github.com/rednafi/protomate

> CLI tool for creating new Github project
> Added Github password hashing, prompt to save password, prompt to add .gitignore, project language detection etc

`Python3` `Poetry` `Questionary`

📖 PUBLICATIONS

2019   Facial Emotion Recognition from Single Modal Information, ICASERT 2019

🎓 TEACHING AND MENTORING

July 2018 May 2018	**Chief Instructor | Intro to Machine Learning**, SBSC CLUB, BUET

> Introduced machine learning fundamentals
> Taught statistical **EDA** techniques like **PCA**, **TSNE**, **SVD** etc
> In depth demonstration of computer vision and text processing algorithms via **Keras** API

`Python` `Jupyter Notebook` `Pandas` `Anaconda` `OpenCV`