Email: neelshah181993@gmail.com https://www.linkedin.com/in/neelshah18

TECHNICAL SKILLS

- Technologies: AWS, Linux server, Git, Rest API, Flask, ETL, Agile, Docker, MongoDB, Elasticsearch, Sql, Hadoop
- Programming Languages and Tools: Python, R, C, Go, Tensorflow, Scipy, Keras, Qgis, NLTK, scikit-learn, Standford-NLP, Tableau, SAS Visual Analytics, Power BI, AWS Data pipeline
- Machine/Deep Learning: Regression Models, Tree Models, Clustering Models, SVM, CNN, RNN, Gradient models, LSTM

EXPERIENCE

• Data Analysis Research Assistant

Thunder bay, ON

Lakehead University

November 2017 - May 2019

- Documented the complete process flow to describe program development, logic, testing, and implementation, application integration, coding.
- Worked with project team representatives to ensure that logical and physical data models were developed in line with corporate standards and guidelines.
- Spatial analysis of Social media data to predict health problems in Canada with 94% accuracy using scikit-learn.
- Successfully implemented real-time health analysis system using social media data with 93% accuracy of multiclass classification using Random forest in tensorflow and python.
- Design, develop and test Machine learning model for analysing and predicting diabetic trend in Canada through social media data on distributed NVIDIA Titan-X CUDA server using tensorflow and keras.
- Created largest open source food database "Food in one" with 333K data points for statistical analysis of country level food buying and consuming pattern.
- Designed and developed "Elasticsearch" on distributed server with 20 nodes which allow searching from 330M tweets/second.
- Performed quantitative analysis and visualization of social media data for health analyzation.
- Created Technical specifications documents based on the functional design document for the ETL coding to build the data mart.

• Data Analyst San Diego, CA

Datalog.ai

January 2017 - August 2017

- Developed backend NER functionality for NLP algorithm used in chatbots.
- Design and developed clustering algorithm for decision making based on chat.
- Successfully implemented 5+ visualization dashboard for backend analysis of chatbot data: semantic analysis, topic extractor & other.
- Implement asynchronous API for chatbot analysis system, which is capable of handling thousands request per second.
- Extensively involved in Data Extraction, Transformation and Loading (ETL process) from Source to target systems using MongoDB and Oracle database.
- Worked with Technical Experts to Improve Report Performance and performed System testing.
- Gathered requirements from remotely based business users and defined and elaborated the requirements by holding meetings with the users.
- $\circ\,$ Providing End-user Training and documentation for customer reporting services.

• Data Analyst Godhra, GJ

Panchamrut Dairy

July 2014 - December 2016

- Working real time data analysis system for raw product cost and product transportation using SAP.
- Detail report generation of different products sales and cost.
- Perform data analytic on sales data for forecasting future growth of products.
- Owned the assigned reports, worked on them and updated the Report Development Scheduler for status on each report.
- Worked on daily basis with lead Data Warehouse developers to evaluate impact on current implementation, redesign of all ETL logic.
- Worked on exporting reports in multiple formats including MS Word, Excel, CSV and PDF.
- Developed Tableau visualizations and dashboards using Tableau Desktop.
- Forecasted sales pattern of ice-cream using time-series with 71% efficiency.

EDUCATION

• Master of Science in Computer Science

Lakehead University; GPA: 3.9/4.00

Thunder Bay, ON September 2017 – May 2019

• Master of Engineering in Information Technology Gujarat Technology University; CGPA: 8.78/10 Vadodara, India August 2012 – June 2014

• Bachelor of Engineering in Computer Science Gujarat Technology University; CGPA: 7.31/10 Vadodara, India August 2008 – July 2012

OPEN SOURCE LIBRARIES

- **Emot**: Developed and Maintainer of widely use open source "emot" python library(11k+ Users) to extract the emojis and emoticons from a text with their respective meaning. Lead library maintainer team for bug fixing and new features.
- Sentencelab: Developed and Maintainer open source python library for text data cleaning, sentiment analysis and topic extraction.
- Kaggle: Open source two database "Arxiv analysis data" and "Indian's AI growth" on kaggle with 25k+ Downloads.
- Bug solving and test cases: Solved more than 13 bugs and 10 test model for different open source libraries.

Funding

• Research grant: 7000\$/Yearly NSERC Discovery Grant.

PUBLICATION

- Shah, Neel, Darryl L. Willick and Vijay Mago. "A framework for social media data analytics using Elasticsearch and Kibana." Wireless Networks (2018): 1-9.
- Neel Shah and Vijay Mago. Canadian's health analysis through social media. IEEE Machine Learning 2019: (submitted)