**Shalini Chandra**

Boston, MA | 857-424-7179 | [chandra.shal@husky.neu.edu](mailto:chandra.shal@husky.neu.edu)

<https://www.linkedin.com/in/shalini-chandra-b1734b8b/>

**Technical Skills:**

Programming Languages : Python, R, SQL, PL/SQL

Databases : Microsoft SQL Server, SQL, NoSQL

IT Services : Incident, Access & Change Management, Business Analysis, Service Now

Data Science Libraries : Python – Numpy, Pandas, matplotlib, statsmodels, scikit learn, scipy stats, seaborn, PIL

R – dplyr, ggplot, udpipe, lattice, worcloud

Cloud Services : AWS(Lambda, S3, EC2, CloudWatch,IAM)

**Education:**

**Northeastern University**, Boston, MA Expected Dec 2021

Master of Science in Information Systems

**Shri Mata Vaishno Devi University**, J&K,India May 2015

Bachelor of Engineering in Computer Science

**Work Experience: Accenture**,Hyderabad, India Jan 2016 – Dec 2019

***Senior Application Development Analyst***

* Business Analysis and Requirements gathering from various business user community, coordinating with end users communities understand their requirement
* Good data analysis experience using SQL, analyzing redundant and inconsistent data, diagramming data flows and process flows
* Involved in the development and implementation of the Enterprise Data Warehousing EDW process and Data Warehouse
* Building of the BODS Jobs, Workflows and Data Flows as per the Mapping Specification
* Worked extensively on different types of transformations like Query transformation, Merge, Case, Validations, Map-operation, History Preserving and Table Comparison transformations etc
* Extensively used ETL to load data from the flat, CSV and also from the relation database
* Maintained warehouse metadata, naming standards and warehouse standards for the application development
* Involved in migration, UAT and solved the issues raised by users before migrating to Production
* Experience in developing user-defined functions using Java as per the client requirements.

**Academic Projects:**

**Hindi Word Frequency Analysis: (R-dplyr, lattice, ggplot2)**

* Created wordcloud in **R** for Hindi text corpus for display of most frequently occurring noun phrases using **wordcloud**
* Performed Data Cleansing using dplyr by removing punctuations, white spaces, special characters and visualized them using bar-charts by making use of **lattice** and **ggplot2** libraries

**Data trends and Closing Price Prediction of Netflix Stock: (Python libraries for Data Science)**

* Analyzed stock data using moving averages, exponential smoothing, frequency distributions, correlation matrices for various variables of stock and plotted them graphically to identify by trends
* Implemented Ordinary Least Square Regression algorithm from scratch **without using any of the libraries** and predicted the closing price with 89% accuracy

**Formula-1 Race Driver’s Winning Probability Predictions:**

* Calculated different winning probabilities in **Python** of Formula 1 races participating in different GP’s by defining Probability distribution functions, predicates and made different combinations of events and spaces accordingly

**Statistical testing on Data:**

* Determined the relation between drug data groups using statistical hypothesis testing by conducting various test like t-test, normality test and Mann-Whitney Test
* Performed Bayesian estimations for rainfall data by using probability density functions, gamma distributions

**Global Warming Analysis using Deep Learning(ANN, LSTM Models)**

* data from various sources – Deforestation API, Antartic Mass loss API, Emissions web scrapping using **Python** and performed data cleaning using **Pandas** and comparison using **Matlplotlib**
* Prediction Anayltics on the final data using **LSTM** model and predicts how the series can progress in the future based on the past last 10 years data.
* Used **ANN** model for predicting future temperature as it was giving good approximation