

PALAKSHI MEHUL CHOKSI

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EDUCATION

Northeastern University | Boston, MA

September 2021 – May 2023

Master of Science in Data Analytics Engineering

GPA: 4.0/4.0

Relevant Courses: Data Mining in Engineering, Computation and Visualization, Data Management for Analytics

Dharmsinh Desai University | Nadiad, India

July 2016 - May 2020

Bachelor of Technology in Electronics and Communication Engineering

TECHNICAL SKILLS

Programming Languages: Python (Pandas, NumPy, Matplotlib, TensorFlow, Keras), R, SQL, C, C++, MATLAB

Tools: Tableau, Microsoft Excel (Advance), Microsoft Power BI, SSIS, SSAS, QlikView, AWS, Snowflake, Stata

Databases & Data Integration: MySQL, PostgreSQL, SQL Server, NoSQL, Talend, MongoDB

Certificates: Tableau Analyst, Google Analytics for Beginners, Google Analytics Professional Certificate

WORK EXPERIENCE

Data Science Intern | The Sparks Foundation, India

March 2021 - April 2021

- Analyzed amazon stock price by various statistical analysis methods as simple moving average (SMA), descriptive statistics and standard deviation.
- Predicted closing price for next 15 days by training dataset on Long Short-Term Memory (LSTM) algorithm using Sci-kit learn and pandas.

Machine Learning Intern | Fusion Informatics, Ahmedabad, India

June 2020 - September 2020

- Implemented Computer Vision model based on neural network (YOLOv3) for analyzing real-time social distance compliance with an accuracy of 83%.
- Enhanced object detection by using OpenPose library which uses key point detection rather than bounding box.
- Instituted an automatic alert system to send a message to staff if social distancing norms are violated.

Research Assistant – Deep Learning | Dharmsinh Desai University, Nadiad, India

December 2019 - April 2020

- Automated a portable device using a Binary Convolutional Neural Network (BCNN) model to assist visually impaired people and achieved 93% accuracy.
- Build a dataset of 10K+ images by data-augmentation and performed pre-processing, manipulation, and classification.
- Developed an algorithm to capture continuous images at defined time-interval and scrap them after processing to improve memory usage.
- Reinforced the device efficiency by adding a secondary detection system by interfacing an ultrasonic sensor and IR sensor and establishing a voice-altering system.

ACADEMIC PROJECTS

Amazon Electronics Product Recommendation System

January 2022

- Designed a product recommendation system of 47000 products using User-Based Collaborative Filter (UBCF).
- Utilized Tableau to build a dashboard to recommend top 10 products based on user's previous watch history and ratings

Covid-19 Impact on Mobility across the World | Northeastern University

December 2021

- Implemented data manipulation, feature engineering, and Exploratory Data Analysis (EDA) using Python on a large database containing 8M+ rows to uncover logical insights about percentage change in people's movement.
- Created interactive Tableau dashboard to represent trend over time and moving average in mobility of people in six categories of places.

Vaccination Management System | Northeastern University

November 2021

- Mapped an ER model in Microsoft Visio to explain the logical structure of vaccination management system and created a complex data model in SQL Server.
- Facilitated CRUD (Create, Read, Update and Delete) dataset operations on 11 tables and scripted 23+ SQL query to derive insights like daily vaccinations doses administrated, appointment slots field and vaccine doses on hand.

PUBLICATION

Choksi P.M., Desai L.S., Meghrajani Y.K. (2021), "Object Detection Using Deep Learning for Visually Impaired People in Indoor Environment", *3rd International Conference on Soft Computing and Signal Processing*, vol 1, Springer, Singapore

LEADERSHIP

President | Financial Committee – Felicific Techno-Cultural Fest (National Level) | DDU University, India

2019

Head Volunteer | Women Law Awareness Program – National Level | DDU University, India

2019