

CHIRANJIBI GHIMIRE

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Baltimore, MD

Data Analyst

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TECHNICAL SKILLS

Database: SQL Server, MySQL, PostgreSQL, MariaDB, MongoDB

Machine Learning Tools: Python, R, STATA, AWS SageMaker, AWS Comprehend, Facebook Prophet

Python Packages: NumPy, Pandas, Seaborn, Scikit-learn, Keras

Tools/Languages: Tableau, RapidMiner, JSON, GitHub, Jupyter Notebook, Microsoft Excel, MATLAB, HTML, CSS

EXPERIENCE

Data Analyst

Takenmind

Aug 2019 - May 2020

- Analyzed employee attrition data for an e-commerce client to identify the main reasons why employees were leaving the company.
- Cleaned the data and performed EDA using Pandas and NumPy in Python to generate insights to understand the relationships among different variables, including hours worked, previous promotions, job titles, etc.
- Built a predictive model by implementing statistical and machine learning algorithms such as logistic regression, Random Forest, and SVM to predict employee turnover.
- Recommended strategic retention plan with strong indicators that decreased the turnover rate by 5%.
- Developed a dashboard on the telecom industry in Tableau for Marketing Team to make strategic investment plans.

Data Analyst

University of South Dakota

Aug 2013 - Aug 2016

- Explored and analyzed large raw data sets from a national laboratory to identify high-energy neutron radiation by developing MATLAB functions that cut down the manual analysis time by 50%.
- Engineered data pipelines using SQL scripts and ETL processes to consolidate four university lab databases.
- Built web application to track neutron radiation using various parameters including, amplitude and time stamps, to record complex patterns for further analysis.
- Published a research paper about understanding fast neutrons characteristics using data from two detector systems: a water-Cherenkov and gas-filled detectors.

DATA PROJECTS

Healthcare Data Analysis [\[Link\]](#)

- Analyzed hospital data and researched EHR, HIPPA, Data Dictionary, and ICD codes to understand how different patient variables, such as charges and length of hospital stay, affect hospital revenue and costs.
- Performed EDA using dplyr package in R to generate relevant insights around Diagnostic Related Group (DRG) and medical procedures to estimate cost and length of hospital stay for patients.
- Created visualizations using ggplot2 for better representation of the findings and insights, including avg. cost DRG, and avg. hospital stay for patients.

Restaurant Management System [\(demo\)](#) [\[Link\]](#)

- Created a web interface using HTML, CSS, and PHP to enable customers to order and track delivery time directly from restaurants.
- Built back-end operations database using SQL and MariaDB to perform queries in real-time to help management run the restaurant operations such as scheduling, updating daily menu more efficiently.

Bank Telemarketing Data Analysis [\[Link\]](#)

- Analyzed telemarketing data to study customer behavior to predict whether they subscribe to a term deposit.
- Cleaned the data by removing missing values and outliers to prepare the data for further analysis using R.
- Built a classification model using a Logistic regression, Decision tree, and Random Forest to predict the likelihood of customer subscription based on important variables such as job, education, loan, etc.

EDUCATION

Data Analytics Immersive Program

Montgomery College, Gaithersburg, MD

May 2019

Master of Science in Information Technology

Hood College, Frederick, MD

May 2019

Master of Science in Physics

University of South Dakota, Vermillion, SD

Aug 2015