

Ashish Sharma

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EDUCATION

The University of Texas at Dallas

M.S., Business Analytics (Data Science)

August 2018 - May 2020

GPA 4.0

Jaypee University of Information Technology, Solan, India

Bachelor of Technology, Electronics and Communication Engineering

July 2010 - June 2014

GPA 3.88

SKILLS AND COMPETENCIES

Technical Skills: Python, R, SQL, Machine Learning, Scikit-learn, Natural Language Processing (NLP), TensorFlow, keras, Deep Learning, Tableau, Power BI, SQL Server, Microsoft Azure, MLLib, SAS, Hadoop, Hive, Apache Spark, PySpark, Big Data, Visual Studio Code, node.js, JavaScript, Statistical Modeling, Decision Tree, Regression, Random Forest, Gradient Boosting, Advanced Microsoft Excel, Microsoft Office Suite, Pandas, NumPy, Seaborn, Matplotlib

BUSINESS EXPERIENCE

Machine Learning Co-op – Cotiviti, Atlanta, GA

August 2019 – Present

- Worked with health plan client data set with more than 50 MM claim lines and 2000+ features to perform exploratory data analysis to provide descriptive statistics and built machine learning models on top of that to show a roadmap of where and how to tweak the edits and Nurse Review Service to reduce the appeal and overturns
- Developing appropriate models for the 3-step classification problem, deploy them on Azure Cloud Platform and implement models as an API web service and generate interface

Data Science Intern – Divergence.ai, Dallas, TX

June 2019 – August 2019

- Built a POC for a chatbot using Microsoft bot framework and SQL server to bridge the communication gap between the customers and the company, by making the intelligence reach out to every customer
- Designed the bot using node.js and JavaScript, and integrated it with the customer database, and LUIS an Azure cognitive service that provides a natural language understanding capability to the chatbot for the intent and entity recognition
- Integrated Power BI embedded with the chatbot, so that it returns visualizations based on the questions asked by the customer
- Built Natural Language Processing models to extract most important topics out of the questions asked by the users

Data Analyst - Cognizant Technology Solutions, India

January 2015 – February 2018

- Extracted historical auto and home insurance data of 1.2 million customers using SQL to analyze the likelihood of a prospective insured that have received a quote purchasing insurance from the company
- Prepared data for analysis by cleaning and transforming the extracted data, and performed descriptive analysis using python
- Built a classification model to predict the purchase likelihood of a customer, who is in between quote and policy purchase stage and identified the variables that impacted customer conversion rate significantly
- Implementation of the proposed business recommendations based on the model helped the client in improving the customer conversion rate by 18%

HACKATHONS AND ACADEMIC PROJECTS

Inform Analytics Challenge: LA Restaurant Data Analysis (Machine Learning, Python, Tableau, Clustering) [GitHub](#) - Winner

- Built a Naïve Bayes classifier to predict the health grade of the restaurant in the 88 cities of the Log Angeles county using only its name, address, and zip code with an accuracy of 63%

UNT Hackathon: Sign Language Interpreter (TensorFlow, Keras, Python, OpenCV) [YouTube](#) - Winner

- Implemented a sign language interpreter to help more than 70 million people across the world, having a condition of hearing impairment, with their daily communication needs using Deep Learning

Minimizing Churn Rate Through Analysis of Financial Habits (Pandas, Machine Learning, Scikit-Learn, SAS) [GitHub](#)

- Processed and cleaned the product-related customer data of mobile application used for finance tracking, to perform Exploratory Data Analysis and built a machine learning model using Logistic Regression to predict which customer may churn, found best parameters using K-fold Cross Validation and achieved an accuracy of 62%

Data Analysis of PUBG game (Spark, Hive, Impala, MLLib) [GitHub](#)

- Built models In Spark using PySpark to predict the winner of the game, achieved >91% accuracy by using linear regression and random forest, tuning hyperparameters with grid search and cross-validation