Ashish Sharma

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EDUCATION

The University of Texas at Dallas **August 2018 - May 2020**
M.S., Business Analytics (Data Science) **GPA 4.0**
Jaypee University of Information Technology, Solan, India **July 2010 - June 2014**
Bachelor of Technology, Electronics and Communication Engineering **GPA 3.88**

SKILLS AND COMPETENCIES

Analytic Tools and Languages: PySpark, Python, R, Apache Spark, JavaScript, Advanced Microsoft Excel, GitHub, JIRA

Database and Visualization: SQL, NoSQL, Power BI, Tableau, Microsoft SQL Server, Delta Lake, Matplotlib, Seaborn

Data Science and Analytics: Microsoft Azure, Databricks, Machine Learning, Deep Learning, Scikit-learn, Pandas, Spacy, Gensim, Decision Tree, Random Forest, Neural Networks, LSTM, keras, A/B Testing, Natural Language Processing (NLP)

BUSINESS EXPERIENCE

***Data Scientist* –** Cotiviti, Atlanta, GA **June 2020 – Present**

- Designed a workflow to fully automate the Rapid Risk Adjustment process in healthcare using 26 Machine Learning model in two layers, predicting the diagnostic codes associated with a patient using its medical chart data

***Data Scientist Co-op* –** Cotiviti, Atlanta, GA **August 2019 – April 2020**

- Developed AI/ML models using health insurance claims data consisting of 100 MM+ claims and 2000+ features, to help mitigate the problem of provider abrasion/churn, suggesting quarterly savings of $3MM
- Built predictive models on Azure ML using XG boost and Random Forest algorithms, achieving >80% precision
- Presented actionable insights to the business using predictive model output, showing a roadmap of where and how to tweak the business rules to reduce the appeal and overturn rate
- Developed data pipelines in Azure Databricks using PySpark to create linkages between 1.1 MM doctors and their affiliated organizations, to provide detailed insights to the health insurance companies at an organizational level

***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
- Integrated the bot with the customer database, and LUIS an Azure cognitive service that provides a natural language understanding capability to the chatbot, and built NLP models for topic modeling using Gensim
- Integrated Power BI with the chatbot to make it return visualizations based on the questions asked by the customers

***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 the data with 30 features by cleaning and transforming it, and performed descriptive analysis using python
- Built a logistic regression model to predict the purchase likelihood of a customer and identified the variables that impacted customer conversion significantly, resulting in an 18% increase in the customer conversion rate

HACKATHONS AND ACADEMIC PROJECTS

Informs Analytics Challenge: LA Restaurant Data Analysis *(Machine Learning, SAS, Python, Tableau)* **GitHub - Winner**

- Built a Naïve Bayes classifier to predict the health grade of the restaurant in the 88 cities of the Log Angeles county, on a highly imbalanced dataset, 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 MM people across the world, having a condition of hearing impairment, with their daily communication needs using Convolution Neural Network/Deep Learning on over 100k images, utilizing TensorFlow