Ashish Sharma

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EDUCATION

The University of Texas at Dallas **May 2020**
Master of Science, Data Science GPA 4.0
Jaypee University of Information Technology, India **June 2014**
Bachelor of Technology, Electronics and Communication Engineering GPA 3.88

SKILLS AND COMPETENCIES

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

Database and Visualization: SQL, Snowflake, Oracle DB, Power BI, Tableau, Matplotlib, Splunk

Data Science and Analytics: A/B Testing, Machine Learning, Deep Learning, Spark, Microsoft Azure, Hadoop, pandas, Scikit-learn, Regression, Random Forest, XG-Boost, Clustering, K-means, TensorFlow, Embedding, keras, Statistical Modeling, Natural Language Processing (NLP), Airflow

PROFESSIONAL EXPERIENCE

Machine Learning Engineer – Apple, Austin, TX **May 2022 – Present**

- **Data-Driven Integration:** Integrated CE 3.0 regulation into the App Store's refund abuse program, enabling a rule to reject refund requests with first-party misuse evidence. Resulted in annual savings of $5 million, enhancing the efficiency and effectiveness of the refund process
- **AutoML Framework:** Created an AutoML framework integrated with Airflow, offering dynamic feature selection, label determination, and data processing based on user preferences, and automated the generation and email delivery of detailed training reports, resulting in a time-saving of 4 days per model for a DS
- **BI Dashboards:** Developed a Splunk dashboard for real-time monitoring of daily spikes and trends in refund requests on the App Store streamlining the alert response process and rapid issue identification
- **Machine Learning Model Enhancement:** Enhanced Refund Abuse Reduction model and implemented decisioning rules resulting in over $4 million annual savings for Apple

Data Scientist – Cotiviti, Dallas, TX **January 2020 – May 2022**

- **Predictive Modeling:** Improved the payment accuracy solution, expediting the claim review process by 25%, automating 150k claims per month that resulted in $3.5 million annual savings
- **Machine Learning:** Implemented ML models using LGBM algorithm and a deep learning model utilizing the deep cross-network architecture on a cloud platform using 1 million claims with over 1300+ features.
- **BI Dashboards:** Derived the optimal threshold for binary classification models by doing a cost-benefit analysis to achieve 95% accuracy and created a Tableau dashboard to track the key performance indicators
- **A/B Testing:** Led A/B testing to evaluate the model performance in production, comparing automation vs. manual results to maintain >95% precision for each model

Data Analyst - Cognizant Technology Solutions, India **January 2015 – February 2018**

- **Data Wrangling:** Extracted historical auto insurance data of 1.2 million customers using SQL, transformed and analyzed it using python
- **Customer Segmentation:** Prepared the data with around 30 features, performed descriptive analysis and provided insights to the data science team to come up with a targeting strategy

HACKATHONS AND ACADEMIC PROJECTS

Sign Language Interpreter – UNT 2019 Hackathon **– Winner [GitHub | YouTube]**

- Developed a Sign Language Interpreter with 95% accuracy to aid people with hearing impairment with their daily communication, utilizing CNN model trained on 105k greyscale images of 44 American Sign Language gestures