SIDDHARTH GOEL

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EDUCATION

University of Pennsylvania | MSE in Data Science (December 2021) | GPA: 3.72/4.00

• Coursework: Machine Learning, Big Data Analytics, Deep Learning for Data Science, Computational Linguistics (NLP), Statistics for data science

University of Delhi | BE in Information Technology (May 2012) | GPA: 7.75/10

• Coursework: Programming Languages, Object Oriented Design, Algorithms and Data Structures, Database Systems

KEY SKILLS

- Python PyTorch, NumPy, pandas, scikit-learn, matplotlib, seaborn
- SQL, NoSQL, MongoDB, Apache Spark

INTERNSHIP

BharatPe, New Delhi, India | Data Science/Machine Learning Intern

July 2020 - Present

#Series_C_Indian_Fintech_Startup, #Digital_Payments, #5.5M_merchants, #45M_monthly_transactions

- Predicting Merchant Business Category | Python, pandas, scikit-learn, SQL
 Developed a predictive model to identify the merchant's business category food & beverages, fuel, consumer goods etc., contributing to 2% revenue increase by running targeted marketing campaigns and promotional offers.
- Identifying Money Leakage | Python, pandas, SQL
 Built and conducted experiments to verify all the incoming and outgoing payments reconciliation for all product lines, proactively checking potential bottom line impact by preventing money leakage and future cost in audit disputes.
- Daily Settlement Ratio | Data Mining, Python, pandas, SQL, Improved the daily payment settlement ratio by identifying users having dysfunctional accounts for reasons such as blocked/frozen accounts, limit exceeded etc. using pattern recognition in recent historical transactions, increasing user retention by 5%.

ACADEMIC PROJECTS

- **US Traffic Accidents** | *Predictive Analytics, Python, scikit-learn, matplotlib, seaborn, Spark* | [Github Repo] Apr 2020 Built the complete data science pipeline by performing extensive exploratory data analysis, data pre-processing, feature engineering, and data modelling on about 3 million records of the <u>US Traffic Accidents dataset</u>.
- Audio Source Separation | Deep Learning, PyTorch, Python | [Github Repo] Apr 2020
 Separated MUSDB18 dataset mixture tracks into vocals, drums, bass, and other instruments using LSTM and state-of-the-art deep learning models.

PROFESSIONAL EXPERIENCE

June 2012 - August 2019

Deloitte Consulting (US-India) | Technology Consultant

- Preventing payment disputes: Built a classification model using random forest algorithm to predict payment disputes on open invoices, decreasing the effort in consolidation of payments at quarter end by 30% and reducing bottom-line impact by 25%.
- Inventory replenishment: Developed novel solution to forecast demand from customers' buying trends using croston algorithm and SAP Predictive Analytics Library (PAL), reducing material stock-outs by 95% and adding 15% to top-line.

 o The ML solution is estimated to generate revenues worth \$10M+ for Deloitte.
- **Demand prediction:** Developed time series ML model using arima algorithm to predict production order time for a manufacturing client. The prediction results helped in confirming delivery time to customer in material routing, leading to accurate estimation of order delivery and reduced gap between planned and actual.
- **SAP Invoice Management:** Implemented Opentext Vendor Invoice Management (VIM) framework to **create and process** ~15,000 vendor invoices monthly, for a multinational professional services firm.
 - o Developed end-to-end invoice handling process including reading of pdf/.doc(x) documents using OCR, exception handling, invoice approval workflow, and invoice posting and storage in SAP system.