SIDDHARTH GOEL

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EDUCATION

University of Pennsylvania | MSE in Data Science (December 2021) | GPA: 3.79/4.00

• Coursework: Machine Learning, Big Data Analytics, Deep Learning for Data Science, Computational Linguistics (NLP), Statistics for data science, Learning in Robotics, Time-series Forecasting Methods

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

RESEARCH EXPERIENCE

- Research Area: Computer Vision/Perception in Robotics, Visual navigation
- Pursuing a <u>master's thesis</u> on navigation of agents in <u>3D indoor environments</u> to perform tasks such as point goal and object goal navigation under the guidance of <u>Kostas Daniilidis</u> and <u>Georgios Georgakis</u>.

INTERNSHIP

Amazon, Seattle, US | Applied Scientist Intern

May 2021 - Aug 2021

Supply Chain Optimization Technologies (SCOT) - Fulfillment Optimization (FO) | Python, pandas, SQL

- Conducted a comprehensive analysis of the complex and massive Amazon supply chain and end-to-end operations.
- Designed and evaluated a novel demand informed sampling strategy to generate high-fidelity samples of the millions of customer orders placed on Amazon.com and its subsidiaries.
- The samples are intended to improve simulations based on which Amazon plans its entire order fulfillment supply chain across the world.

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

Jul 2020 - Dec 2020

#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 preventing potential bottom line impact by checking 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 US Traffic Accidents dataset.

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.