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

Forward Looking Sampling | 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 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.