**Prathamesh Pradip Datar** [pratt.datar@gmail.com](mailto:pratt.datar@gmail.com) | <https://www.linkedin.com/in/datar96>

*Leveraging Data and Strategy to create business impact* +1-315-728-0287 | <https://github.com/pratt-datar>

**EDUCATION**

**Syracuse University - *School of Information Studies*** ***GPA: 3.97/4; May ‘21***

MS – Information Management, Certificate in Advanced Studies – Data Science

*Achievements: Graduate Program Merit Tuition Scholarship*

*Relevant Courses: Data Analysis & Decision Making, Social Networks, Data Admin Concepts & Database Management, Text Mining*

**University of Mumbai - *K.J. Somaiya College of Engineering******GPA: 8.69/10; Jun ‘18***

BTech - Electronics and Telecommunication Engineering

*Relevant Courses - Big Data Analytics, Neural Networks, Operations Research, Cloud Computing*

**SKILLS AND COMPETENCIES**

* **Core Skills**: Machine Learning, Time-Series Analysis, Neural Networks, Deep Learning, Visualization, Network Science
* **Programming and Scripting Languages**: Python (Pandas, Scikit, matplotlib, PySpark), R (tidyverse, ggplot2, igraph), SQL
* **Databases and Tools**: MySQL, Visio, MS Access, Mongo DB
* **Big Data Skills:** HDFS, MapReduce, AWS EC2, AWS S3, Docker, Google Cloud Platform
* **Data Analysis Tools:** Tableau, PowerBI, Gephi, MS Excel, MS PowerPoint, Plotly, Jupyter Notebook, SAS
* **Collaboration tools:** Git, BitBucket, AWS CodeCommit, Jira

**EXPERIENCE**

**Acoustic Wells (MIT) – *Data Science Intern (Full-time) Boston, US; Jun ‘20 – Aug ‘20***

* Identified bottlenecks in oil tank height estimation and implemented a production allocation system to determine financial revenue
* Performed linear regression for tank temperature estimation to desensitize well pressure data dependent on temperature fluctuations
* Improved production rate estimation of oil wells by 5% by writing a custom loss function with L1 norm and regularization terms
* Validated research findings by conducting a parametric study and tracked agile team progress and coordination in Jira

**Think Analytics – *Associate Data Scientist (Full-time)******Mumbai, India; Nov ‘18 – Jul ‘19***

* Delivered an 18% improved real-time anomaly detection system using PCA and WOE-IV model to detect issues in the oil well operating conditions to minimize production loss and provide maintenance teams better insights
* Invented a real-time segmentation system using computer vision techniques and a custom-made algorithm to identify the player’s landing point to detect 90% of uncalled no-balls in the game of cricket to assist umpires in making better decisions
* Developed an identity verification system for Banks using RNN, AWS Rekognition, EC2, S3 for smooth customer onboarding

**Syracuse University – *Graduate Research Assistant (Part-time)******Syracuse, US; Feb ‘20 – Present***

* Investigated a social phenomenon of drinking bleach during a pandemic by extracting 2 TB coronavirus tweets using MongoDB
* Designed coursework for ‘IST 359 – Intro to DBMS’ and mentored hybrid class in concepts such as Normalization and ERDs
* Mentored 100 students in ‘IST 687 - Introduction to Data Science’ to integrate Jupyter notebooks and MIDST tool

**PROJECTS**

**Sentiment analysis of drug reviews (NLP and Machine Learning)** [***Project Link***](https://github.com/pratt-datar/Sentiment-ambiguity)**; *Jul ‘20 – Aug ‘20***

* Analyzed 215K patient reviews to empower drug manufacturers to provide better customer service by determining review sentiment
* Achieved an F-score of 0.85 on the LinearSVC model by applying unigram bigrams and custom vocabulary to predict sentiment
* Conducted a comparative study between SVM and Naïve Bayes models for text classification to discover ambiguous reviews

**Replication study: Designing sustainable online support (Social Network Analysis)** [***Project Link***](https://github.com/pratt-datar/socio-technical-WebMD)**; *Mar ‘20 – May ‘20***

* Examined sociotechnical design changes on 49 WebMD forums in 2010 to understand the relationship between design and stability
* Devised a modularity graph analysis in R to validate the division of distinct subgroupings for reply and relationship networks
* Verified and visualized socio-technical and network changes in Gephi by performing a core-periphery analysis from 2009 to 2014

**Southeast airline customer service analysis (Data Science and Machine Learning)** [***Project Link***](https://medium.com/analytics-vidhya/airline-customer-services-analysis-7b9a84bfab86)***; Aug ‘19 – Dec ‘19***

* Mapped 10.2K flight survey reviews in R to recognize service and operational shortcomings and improve customer satisfaction
* Summarized 5 main attributes of data by performing exploratory data analysis like bar charts, map visualizations, wordcloud
* Led a team of 4 to provide actionable insights by applying association rule mining to find prominent predictors for customer type

**Listing Management on OrangeHousing.com (Database Management)** [***Project Link***](https://github.com/pratt-datar/Database-Management)***; Aug ‘19 – Dec ‘19***

* Identified database issues on listing management site “OrangeHousing” and developed a SQL application using ERDs and Reports
* Collaborated with a team of 2 analysts to redesign key processes to support historical data access for efficient financial management

**Automatic license plate recognition (ALPR) (Machine Learning and Deep Learning)** [***Project Link***](https://doi.org/10.1007/978-981-13-3582-2_4)**; *Jul ‘17 – Jun ‘18***

* Published in Springer Communications in Computer and Information Science (volume 941, Chapter 4: Advances in Data Science)
* Created a 43K car image dataset to deploy an Automatic License Plate Recognition system to decongest tollways by 95% in Python
* Enhanced existing ALPR system using Computer Vision and Semantic Segmentation techniques to achieve 82% test accuracy