**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), R (tidyverse, ggplot2, igraph), SQL
* **Databases and tools**: MS SQL Server, MySQL, Visio, MS Access, Mongo DB, Jira
* **Big Data Tools:** HDFS, MapReduce, AWS EC2, AWS S3
* **Data Analysis Tools:** Tableau, PowerBI, Gephi, MS Excel, MS PowerPoint, Plotly, Jupyter Notebook, SAS
* **Statistical Skills:** Descriptive and Inferential Statistics, Data Modelling, Hypothesis Testing, ANOVA, Regression
* **Version Control:** Git, BitBucket

**EXPERIENCE**

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

* Implemented a production allocation system to determine financial revenue and monitor oil production using casadi optimization
* Conducted a parametric study for the synthetic production allocation system using random walks and white noise in Python
* Improved optimization using L1 norm and applied Gaussian mixture models for on-off detection of runtimes for oil wells
* Validated research findings for regularization parameters in matplotlib and tracked agile team progress and coordination in Jira

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

* Performed time-series analysis to predict oil pressure anomalies using Principal Component Analysis and WOE-IV model
* Improved F-score of existing prediction system by 18% and provided business insights using Plotly Visualization tool in Python
* Invented a real-time semantic segmentation system to eliminate uncalled no-balls in cricket using FloydHub, and YOLOv3
* Developed an identity verification system using RNN, Amazon Rekognition, EC2, S3 for speech and face recognition in Python

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

* Extracted 2TB Coronavirus tweets using MongoDB to identify social phenomenon for drinking bleach during pandemic in Python
* 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 UCI Drug Review Dataset to identify ambiguous reviews using conjunction counts in Jupyter Notebook
* Conducted a comparative study between SVM and Naïve Bayes models for text classification to predict patient review sentiment
* Achieved a test accuracy of 85.48% and F-score of 0.85 on the LinearSVC model by applying bigrams and custom vocabulary

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

* Examined the sociotechnical design changes in WebMD forums to understand the relationship between design and stability
* Devised a modularity graph analysis to validate the division of distinct subgroupings for reply and relationship networks in R
* Performed a core-periphery analysis to examine replies to and from each class and visualized network change in Gephi

**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***

* Extracted and cleaned airline customer’s survey dataset for providing actionable insights to increase customer satisfaction using R
* Conducted exploratory analysis using bar charts, and ggplot2 map visualizations and implemented text mining technique wordcloud
* Worked as a Team leader to predict customer satisfaction with 81.38% test accuracy using SVM and apriori association rule mining

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

* Identified database issues for listing management on OrangeHousing and developed an application to support historical data access for financial management using Entity Relationship Diagram, Forms, and Reports on SQL Server, MS Visio, and MS Access.

**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 (CCIS, volume 941, Chapter 4: Advances in Data Science
* Created a 43K image car dataset to deploy an Automatic License Plate Recognition system to decongest tollways by 95% in Python
* Built ALPR using Convolutional Neural Networks, Deep learning algorithm YOLOv2, and Semantic Segmentation to segment and recognize number plate characters with 82% accuracy on test data with significant breakthroughs than image processing algorithms