**[Lovish Mullick](https://www.linkedin.com/in/lovishmullick/)**

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**EDUCATION**

[**University of Maryland, Robert H. Smith School of Business**](https://www.rhsmith.umd.edu/programs/ms-information-systems) **College Park, MD, USA**

Master of Science in Information Systems (MSIS) August 2018 – December 2019

[**Guru Gobind Singh Indraprastha University**](http://www.ipu.ac.in/)  **Delhi, India**

Bachelor of Electronics and Communications Engineering August 2014 – May 2018

**WORK EXPERIENCE**

[**University of Maryland – Office of Enrollment Management**](https://svp.umd.edu/enrollment)**,** **College Park, MD**

**Analyst, Strategic Planning and Communications** January 2020 – Present

* Supporting business initiatives in agile manner through data analysis, recommend potential business solutions and assist with strategic implementation.
* Building Ad-hoc Reports & Dashboards based on stakeholder requirement using Salesforce, Oracle DB and MS-Excel.
* Performing qualitative and quantitative data analysis using analytical techniques and Business Intelligence tools like Salesforce, SAS, Python, Spreadsheets, Pivots, Tableau.
* Increased efficiency & effectiveness by 40% for summary statistics reporting of student survey data using Python Scripts.
* Analyzed impact of COVID-19 on undergrad admissions, performed sentimental analysis on student opinions data, Provided insights to leadership.

**Data Analyst-Graduate Assistant** January 2019 – December 2019

**(Statistics Reporting and Business Process Automation using Python *-Pandas, NumPy, Matplotlib, Seaborn)***

* Conducted Stakeholder interviews to gather business requirements, user stories, use-case, process flow diagrams, functional & non-functional features; Presented BI solutions and feasibility analysis to management for process flow improvement.
* Built Tableau dashboards and data visualizations using Python to gauge factors that influence admissions, quantify internal cashflow for admissions and evaluate student scholarship eligibility; facilitating business decision-making & risk reductions.
* Achieved 100% reduction in turnaround time for statistical report generation cycle from 5 months to 6 minutes.

[**ALPINESOFT INC**](https://www.alpinesoftit.com/)**, Pleasanton, CA** August 2017 – June 2018

**Research Analyst Intern**

* Performed market research and data analysis to support the development cycle of a Meal Ordering Mobile application for hospitals that presented patients with meals recommendations based on electronic medical record (EMR).
* Visualized data (using Python) from patient satisfaction surveys and food preferences questionnaires to aid decision strategy.
* Explored trends and correlations amongst patient’s health improvement rate and meal choices.
* Weighed Restaurants’ Yelp reviews according to sentiment, to promote intelligent data-driven vendor selection process.
* Developed dashboards and Statistical Reports using MS Excel and presented recommendations to the executive team.

[**Bharat Electronics Limited**](https://bel-india.in/)**, Delhi, India** June 2017 – July 2017

**Software Development Intern**

* Facilitated implementation of Identification Friend or Foe (IFF) system for surveillance radar.
* Developed scripts using Python, MATLAB and VHDL for air target signal tracking, detection and interrogation.

**SKILLS**

* **Core Skills:** Data Analysis & Reporting, Technical Business Analysis, Data Management, Statistical Modelling, Agile, SCRUM
* **Tools:** Salesforce, SAS, SharePoint, MS Excel, Asana, MS Project, Jupyter Notebook, G-Suite, RStudio, AWS, Hadoop
* **Programming Languages:** Python, R, SQL, MATLAB, C++
* **Data Visualization Tools:** Power BI, Tableau, Python (Pandas, NumPy, Seaborn, GGplot, Plotly, Matplotlib).
* **Datacamp Online Coursework:** Credit Risk Modeling in R |Portfolio Analysis using R | Bond Valuation in R | Quantitative Risk Management in R

**ACADEMIC PROJECTS**

**Healthcare Analysis related to People’s Purchase Decision using Data Exploration (Python-Matplotlib, NumPy, Pandas)**

* Led data cleansing, pre-processing, analysis on relationship between income, vehicle accessibility, food sources availability and health indicators.
* Developed data visualizations; identified key attributes that influence people’s health in New York State; used Trello to communicate with Agile team across six sprints and co-presented research findings to group of 30+.

**Quantitative Analysis of Credit using R (Regression, Decision Tree, Random Forest, Association rules)**

* Directed a team of three to develop classification regression model on a data that encompassed 1000 personal loan accounts, to classify a new customer as “profitable” or “not profitable” using Naïve Bayes, K-NN, logistic regression models and calculated revenue statistics.
* Displayed profitable loan applicants profile using association rules, used Random Forests to improve profitability and accuracy of the model.

**Predictive Analytics on Real-Estate Pricing in Crime Affected Areas (R, Python and GGplot2)**

* Spearheaded a team of five to ETL 1.9 million records across multiple data sets (Los Angeles City) with unrelated regressors; merged data sets using Census Tract API to produce an accurate prediction model for assessing market viability.
* Developed models using Naïve Bayes, KNN, Multinomial Logistic Regression analysis; used ensemble predictions in XG boost algorithm which led to 64% accurate predictive model identifying risk in real-estate investment opportunities.
* Produced visualizations using GGplot2 to identify impact of criminal activities on real estate rent prices in crime affected neighborhood.

**Agile Database-driven Website Design and Development (SQL, Python, R)**

* Led user story and ER diagram development, SQL query and table structure on Microsoft SQL Server database.
* Collaborated with team of five using R, Shiny dashboard and plotly to develop live front-end and back-end web interfaces.

**LEADERSHIP EXPERIENCE**

**Vice President of Public Relations - Graduate Student Government, University of Maryland** May 2019- Sept 2019

* Planned and Organized events dedicated to graduate students in the life of the campus with budget of $5000.
* Oversaw outreach operations for disseminating information by advertisements on social networking sites, to increase event

Participation by use of Qualtrics surveys and response analytics.

* Collaborated with the chairs of GSG committee to publicize the work of the Student Government with campus community