



Manaswi Mishra

312-927-7476 | manaswimishra11@gmail.com | [Linkedin](https://www.linkedin.com/in/manaswimishra) | <https://github.com/manaswimishra>

OBJECTIVE: To use my experience as a mission-centered analytics professional to draw data-driven insights and help realize improvements, among a team of results-driven Data analyst & managers, dedicated to achieving mutual goals, while providing opportunities for personal growth and advancement

PROJECTS:

Formula 1 Telemetry Data Analysis

University of Chicago | MS Analytics

Sep 2019-Dec 2019

- Designed and implemented a geographic coordinates based differential algorithm(in Python) to identify the corner with the most impact, i.e. statistical significance of >60% on the respective lap times
- Created a driver characteristics mapping to help visualize and derive deep insights into a driver's behavior over a course of a race
- Analyzed engine performance profile (in R), across the race, to identify optimal gear shifting and throttle usage patterns

MotoGP Web Scraping (Ongoing)

University of Chicago | MS Analytics

Oct 2019-Present

- Conceptualized and created a MotoGP data repository from the official MotoGP website
- Built a python based web scraper engine to extract the website for various metrics like Winners, Best results, Pole positions, podiums etc. for over 9 different classes spanning 70 years' worth of information
- Implemented the use of selenium packages on Python to procure and establish the data which is being used for further analysis on multiple rider and manufacturer performances

IoT and Data

Pune University | Engineering

May 2013- May 2014

Firefighting Bot- Project

- Built a firefighting bot which accompanied a multitude of sensors to help gauge life threatening scenarios and relay the data to a firefighting team
- Calibrated and installed sensors based on infrared, carbon monoxide detectors and water vapor/steam presence

Driving Analysis- Personal Project

- Captured consumer vehicular data using an OBD2 connector parallelly synced with a mobile device to plot everyday riding driving characteristics
- Captured metrics like G-force, rolling angles, yaw angles along with engine RPM bands with maximum fuel efficiencies
- Visualized the data by plotting animations of the engine characteristics and different sector times to improve time efficiencies and fuel economy by 10%

EXPERIENCE:

HSBC Analytics, Bengaluru

May 2016- Aug 2019

Assistant Manager | Data Scientist | Business consulting

- Built implicit feedback recommendation engine from scratch and leveraged cloud technologies to deploy the model in production end to end, leading to 19% increase in click through rate
- Built an advanced recommendation algorithm-based model to predict over 5 Billion \$ worth of deals of which would have the highest likelihood to convert from pipeline deals to won deals

- Developed a forex subscription model using k-means clustering technique to create high, medium and low FX users based on company behavioral characteristics which lead HSBC to turnaround its Forex customer base which was bleeding revenue every quarter to a +10% revenue growth

Mu-Sigma, Bengaluru
Data Scientist

Sep 2014 – Apr 2016

Responsibilities:

- Participated in all phases of research including data collection, data cleaning, data mining, developing models and visualizations in the marketing domain for an insurance company
- Engineered and developed a propensity model to predict a customer's preferred purchase channel leading to refocus on customer acquisition strategy and lead to a 20% higher response rate from the customers
- Developed and visualized highly insightful campaign monitoring metrics which facilitated individual campaign evaluation for the insurance firm
- Created dashboards to provide information on current marketing KPIs and actionable marketing insights using tableau
- Leveraged data to provide strategic business decisions to increase sales and effectiveness of marketing efforts of the team

TECHNICAL SKILLS:

Machine Learning: Classification, Regression, Clustering, Probability Theory, Feature Engineering, Linear algebra

Statistical tools and programming languages: R, Python (scikit-learn, numpy, scipy, pandas, matplotlib), SQL, SAS-Enterprise Miner, GitHub version control, Microsoft Office, GCP, Tableau, Alteryx

Selected coursework: Applied machine learning, Big Data architecture, Real Time Analytics, Web Analytics, Leadership

EDUCATION:

University of Chicago, IL
M.S. Analytics

Sep 2019 – Present

Coursework: Machine Learning Algorithms, Statistics, Real Time Analytics, Probability, Advance data science concepts

Pune University, India

June 2010 – July 2014

Bachelor of Engineering in Electronics and Telecommunication Engineering | CGPA: 3.9/4.0

AWARDS | HONORS:

- **Member of the Chicago Neighborhood School Program which caters to the young children present in the Chicago community**
- **Team Star award at HSBC for exceptional performance in Data Analytics**
- **Spot Award Excellence award at Mu-Sigma for exceptional performance for the year 2015**
- Council Member at Data Science Club at the University of Chicago
- Top 5% in a class of master's students within the department of analytics at University of Chicago
- Held many positions of responsibility in High school (Junior Captain) and undergraduate college (General Secretary)
- Ranked top 0.1% in competitive examination for engineering.
- National top 0.1%, Certificate of Merit, in ICSE class X computer examination.

References: Provided on request

Employment eligibility: Eligible to work in U.S. on OPT for 36 months

Portfolio: <https://manaswimishra.github.io/>