Harsh Mangal

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EDUCATION

University of Illinois Urbana-Champaign — Champaign, IL
Master of Science in Information Management [GPA: 3.71/4.0] — Dec 2018
(Programming Analytics, Data Mining, Data Stats and Info, Applied Business Research, Business Analytics, Business Intelligence)

Swami Keshwanand Institute of Technology, Management and Gramothan — Jaipur, India
Bachelor of Technology in Computer Science Engineering [GPA: 3.5/4.0] — Jun 2016
(Data structures, Database Management, Computer Architecture, Data warehousing, Object oriented programming, Design of algorithms)

PROFESSIONAL EXPERIENCE

Senior Data Analyst Intern at EnterpriseWorks, University of Illinois Research Park — **May 2018 – Present**

- Managing and optimizing internal data flows for Research park using **Salesforce**. Managing **front-end** as well as **back-end** of the salesforce by creating **visualforce** pages for various events organized by Research park and storing data securely into the salesforce database.
- Provide **statistical programming** expertise to produce various correlation analysis, linear regressions, and time series analysis using **python** to analyze the venture capital funding data, for startups and Entrepreneurs in residence.
- Wrote **python** scripts to perform **text mining** to transform the event attendee data into human readable format to perform data analysis.
- Providing **Business Intelligence** expertise and **business analytical** solutions to all the stakeholders along with university research park directors.

Project Manager at Business Intelligence Group, UIUC — **Aug 2018 – Present**

- Managing a diversified team of 5 consultants to create roadmap for **information governance** and **data quality** from web and **MDM** platform.
- Responsible for project scoping, conduct research studies, managing and estimating timeline of the project. Working closely with different employees of client (**Fortune 500 company**) to understand and identify the need of data stewardship.

Graduate Assistant (Machine Learning) at Bond Research Group, UIUC — **Mar 2018 – May 2018**

- Developed **Python** scripts to analyze the uncharacterized carbon emissions in carbon sources. Used the data and applied **Machine Learning** to build classifiers and subsequently to analyze the patterns of carbon emissions.
- Cleaned and preprocessed the data and made related graphs to gain insights about emission gases like SO_2, CO_2, CO. Performed **bootstrap analysis** to achieve a **90%** confidence interval between the observed and predicted value.

Data Analyst at WebCraft IT, Indore (India) — **Jun 2016 – Jun 2017**

- Analyzed the user activity data and the transactions on the client websites using **Python and MySQL**. The user activity data analysis helped in increasing the performance of business and sales by 5%.
- Worked on **ETL strategies** for processing data to derive valuable information and communicated data-driven insights and recommendations to clients by visualizing data in **Tableau**.
- Designed and presented risk models and strategies that improved marketing programs, resulting in **15%** increase in revenue, by running **regression analysis** and reports to forecast and track program performance.

PROJECTS

- **Prudential Life Insurance Assessment, Kaggle.com challenge -** Developed a **Machine Learning** model using **Scikit Learn** and **Gradient boost** classifiers which predicts the level of risk in providing insurance to the client. Improved the efficiency of the model to 0.58 and ranked among top 10 participants.
- **Principal Component Analysis Algorithm, Hackerrank.com challenge -** Implemented **PCA** data mining algorithm in python to distinguish cancer versus normal patterns in mass-spectrometric data.
- **Frequent pattern mining -** Implemented **Apriori algorithm** in python to mine frequent patterns and closed patterns in a transaction dataset.
- **Tropical Storm Tracking Analysis -** Analyzed different parameters for a storm like speed, distance traveled, landfalls, compass bearings in python using **PyGeodesy library** for the storm data of over **4000 storms** provided by National Hurricane Center, USA
- **Online Dashboard to Track KPI'S -** Built an online dashboard in **Tableau** to track the **KPI's** of a real-world data set which shows various insights of the dataset.

SKILLS

- **Analytics and Visualization**: Python (Pandas, NumPy, Matplotlib, ScikitLearn), R, Tableau 10, Power BI, Google Analytics
- **Databases:** MySQL, Oracle, SQL
- **Programming Languages:** C++, Java (Oracle Certified)
- **Development Tools:** Anaconda, PyCharm, RStudio, Jupyter Notebook, MySQL Workbench, Eclipse, Visio

LEADERSHIP RESPONSIBILITIES

- **Member, Association of Data Science and Analytics –** Student led group which focuses on data science and big data learnings and projects.
- **Blue Member, Global leaders: Orange and Blue Engagement (GLOBE) -** Helping new domestic and international students to develop leadership skills and foster global awareness and cultural competency.