Ranjan Jaiswal

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SUMMARY

- 6 years of professional experience in Data Analysis, Data Engineer, ETL & BI development, and testing experience with sound exposure to Agile and Waterfall methodologies.
- Proficient in Python and PL/SQL programming with good design knowledge of ML, Data structure and Algorithms and SQL skills

EDUCATION

M.S in Computer Science, University of Maryland, Baltimore County   01/2021 – 12/2022 (3.9/4.00 GPA)
B.Tech in Information Technology, Uttar Pradesh Technical University   08/2010 - 04/2014 (7.06/10.00 GPA)

TECHNICAL SKILLS

Expertise: Data Cleaning, Database Querying, Data Mining, Data Integration, Statistical Analysis, Machine Learning, Natural Language processing, Topic Modelling, Business Intelligence, Product Management
Database: MS SQL, MySQL, Oracle, PostgreSQL, SQL server, Teradata
Languages: Python - Matplotlib, Pytorch, TensorFlow, Scikit-learn, Keras, Plotly, SQL, Golang, C/C++, Macros
Data Modelling: ER/Studio, MS Visio, Erwin
Machine learning Model: Latent Dirichlet Algorithm (LDA), Random Forest, Naïve Bayes, Logistic Regression, LIWC, SVM, K-Means
ETL & BI: Informatica Power center, Oracle Data Integrator, DataStage, QlikView, Tableau, Qlik Sense, Advanced Excel

PROFESSIONAL EXPERIENCE

Graduate Teaching Assistant, UMBC, Baltimore, MD   08/2021 - Current
- Responsible for the assisting faculty members with classroom instruction, exams, record keeping, and other miscellaneous projects.
- Responsible for holding office hours, creating, and writing materials such as a syllabus, visual aids, answer keys, supplementary notes, and course websites

Research Assistant, UMBC, Baltimore, MD   06/2021 - 08/2021
Project: *Learning from Tweets:* [Python, SQL, AI/ML/ LDA, SVM, Random Forest and Naïve Bayes]
- Worked on Long Covid and Long Hauler twitter data to observe the pattern and concerns shared by patients, researchers, and doctors
- Used LDA model to extract the topics from the tweets then using various machine learning algorithms (SVM, Random forest, Ada Boost, Naïve Bayes, MLP) we train and test the model and then predict the class/ category of the tweet

Business Technology Associate Consultant, ZS Associates- Gurugram, India   05/2019 - 01/2021
Project: Novartis - DeepBlue tool for MDM [Tibco, Python, MDM, PostgreSQL, Oracle SQL, Hive, Bigdata, JIRA and ALM]
- Built an MDM system for managing HCO & HCP data, allows data steward or reps to raise DCR from CRM and Tibco-EBX tool and track it
Project: Genentech – Bobcat/Pioneer [QlikView, Redshift, PostgreSQL, Informatica, Python, ML – Linear Regression, Decision Tree]
- Built an analysis platform on QlikView to help visualize the sales, Market share, profit, of certain products. Developed ML model to predict sales in next few quarters and recommended client with strategies to apply to over competitors
- **Project: Gilead Science- MMAP** Built an Integrated Data Warehouse ("DW") and Analytics Infrastructure on Cloud Platform that would serve as a foundation layer for analytic capabilities to enhance quality and visualization thereby reducing manual effort

Senior System Engineer, Infosys Limited - Gurugram, India   02/2015 - 04/2019
- Created a Financial Data Warehouse structure is to pull the Financial data from heterogeneous sources, performed ETL on the various layer which is sent to the downstream system for reporting and decision making
- Writing baseline PL/SQL and running code at each checkpoint to get the deviation when data loaded from one system to another
- Data Modeling (Relational, dimensional, Star and Snowflake Schema), Data Design, Data cleaning and Transformation implementations of Data warehousing using Windows, UNIX and Informatica

ACADEMIC PROJECTS

Video Consumption among students and its Impact on academic performance [JavaScript, HTML, CSS, ML, AI]
- Creating a web and mobile application to track students video watch behaviors and collect data for ML
- Run various ML algorithms to see the current behaviors and predict the GPA for upcoming semesters

Image rendering using PBRT and Luxcore [PBRT, LuxCore, AWS, Python, Linux]
- Analyzed some resource intensive programs for image rendering using some tools and suggest areas for improvements
- Performed deep code analysis for Image rendering tools - PBRT and LuxCore and focused on improving the architecture of the system by implementing better approaches such as vector processing, loop unrolling and multiprocessing

Traffic Accident Analysis in Washington DC [Python, Machine Learning models, SQL, Jupyter Notebook]
- Gathered and performed EDA on Traffic and weather data for Washington DC area to make it ready to run ML algorithms
- Developed a general regression model to predict the likelihood of vehicle collision based on various risk factors.