ANKITESH SINGH RAO

GitHub: https://github.com/AnkiteshR

LinkedIn: https://www.linkedin.com/in/ankiteshsinghrao

Portfolio: https://ankiteshr.github.io

Email: ankitesh@buffalo.edu

52 Callodine Ave, Upper
Buffalo, NY 14226
Phone No: +1 716 (563)-8128

SUMMARY

Software developer with an experience of 3 years in the field of information technology with a comprehensive background in data analysis, visualization, business intelligence, statistical analysis, machine learning, sql querying and optimization, database management and ETL. Currently seeking full-time opportunities in data science/data analytics/business intelligence starting June 2019.

EDUCATION

MS in Management Information Systems, University at Buffalo, STEM Designated, **3.83/4.0**   **June 2019 (Expected)**
- **Coursework:** Database Management Systems, Distributed Computing and Big Data Technologies, Data Visualization using Tableau, Predictive Analytics, Web Analytics for E-Commerce, Systems Analysis and Design, Management of IT Projects

Bachelor of Technology in Information Technology, Jaypee Institute of Information Technology, India   **May 2015**
- **Coursework:** Machine Learning and Big Data Analytics, Database Systems, Data Mining, Information Systems

TECHNICAL SKILLS & CERTIFICATIONS

- **Programming Languages & Databases:** Python, SQL, HTML, PHP, CSS, JavaScript, SQL Server, Oracle 11g
- **Libraries and Frameworks:** NumPy, Pandas, Matlplotlib, Scikit-learn, Seaborn, Keras, OpenCV, TensorFlow
- **Machine Learning & Statistics:** Pattern Recognition and Predictive Modeling using Classification, Regression, Clustering, Linear Regression, Logistic Regression, Decision Trees, Random Forest, Association Rule Mining, Naive Bayes, Neural Network, K-Nearest Neighbors, Recommendation Systems, Support Vector Machines, Gradient Descent, Hypothesis Testing, Exploratory Data Analysis, ANOVA, Descriptive Statistics
- **Hadoop Ecosystem:** HDFS, MapReduce
- **Tools:** SAS Enterprise Miner, SAS Studio, Google Analytics, Microsoft Power BI, Tableau, MS Excel, IBM Watson
- **Certifications:** SAS Base Programmer 9 (Pursuing), Tableau Desktop Specialist, Querying Microsoft SQL Server 2012/2014 (70-461), Data Warehousing for Business Intelligence, University of Colorado, Coursera, Machine Learning A-Z ™- Hands on Python in Data Science, Udemy

PROFESSIONAL EXPERIENCE

Senior Member Technical, CDK Global, India   **Mar 2018 – Jul 2018**
- Analyzed and optimized existing SQL queries, improving effectiveness by 20%.
- Wrote functions and stored procedures, and updated existing ETL to reduce overall running time of a report from 2 hours to 3 minutes.

Software Engineer 2, MAQ Software, India   **Aug 2015 – Jan 2018**
- Centralized data pull for more than 15 upstream sources by creating an automated data refresh application through SSIS.
- Processed data collected at data staging layer by writing stored procedure and storing data as facts and dimensions in SQL Data Warehouse.
- Created OLAP Multidimensional Cube (SSAS) to assist business clients in Sales Trend Analysis through Metrics such as MoM, YoY etc.
- Interacted with clients to gather business requirements, modeled them into user stories and negotiated sprint plan for structured delivery process.
- Provided knowledge transition to new hires; prepared and conducted training on project specific practices.

ACADEMIC PROJECTS

Facial Recognition and Transaction Processing System for Delaware North, New York   **Jan 2019 – Present**
- Developing a facial recognition and transaction processing system for point of sale (POS) kiosks.
- Identifying the impact of privacy, consent, ownership and management of identities, security and legal implications.

Utilizing: Deep Learning, Python, OpenCV, Dlib, TensorFlow and Keras

Logistic Regression Model for Autistic Spectrum Disorder (ASD) Prediction   **Jan 2019**
- Classified autistic patients based on the screening results and obtained metrics depicting the prevalence of ASD across the various demographics.
- Built logistic regression model and obtained the ROC Curve and F1 Score. F1 Score after 10-Fold Cross Validation 99.73% (+/- 0.02%).

Utilized: Machine Learning, Python, Numpy, Pandas, Seaborn, Matplotlib, Sklearn, Jupyter Notebook

Air Quality Prediction based on Relative Humidity (RH)   **Dec 2018**
- Predicted the relative humidity at a given point in time based on the all other attributes affecting the change in RH.
- Split the data into test and train sets and applied linear regression, decision tree, random forest and support vector machine for designing the model for predicting RH.
- Predicted the RMSE (Root Mean Square Error) for the various algorithms and concluded that the random forest algorithm is the best choice.

Utilized: Machine Learning, Python, Numpy, Pandas, Seaborn, Matplotlib, Jupyter Notebook

Exploratory Data Analysis and Reporting   **Oct 2018**
- Created an employment dataset from the United States Department of Labor, Bureau of Labor Statistics.
- Exported the dataset created to Tableau to create a dashboard (Civilian Labour Force Reporting) to understand the overall employment scenario.
- Performed region, gender, age and race wise analysis, created time series visualizations and did forecasting using Tableau to understand the dynamics of people contributing to the growth.

Utilized: Tableau, Tableau Prep, MS Excel