ANKITESH SINGH RAO

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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

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PROFESSIONAL EXPERIENCE

Senior Data Analyst, CDK Global, India   **Mar 2018 – Jul 2018**
- Analyzed and optimized sql queries and stored procedures, 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.

Data Analyst, 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 (ETL).
- Processed data collected at staging layer by writing stored procedure and storing it 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.
- Created Power BI reports on top of live connections to the database, cube and data model to depict critical KPIs for the businesses.
- Established release management using GIT and RM for automated backend production deployments with adherence to all SDLC principles.
- Interacted with clients to gather business requirements, modeled them into user stories and negotiated sprint plan for structured delivery process.

ACADEMIC PROJECTS

Facial Recognition and Transaction Processing System for Delaware North, New York   **Jan 2019 – Present**
- Visualizing a future experience where neither credit cards nor photo ID will be required to gain entrance to a sporting event, make a purchase, and order an alcoholic beverage (age verification).
- 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.

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

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

TECHNICAL SKILLS & CERTIFICATIONS

- **Programming Languages & Databases:** Python, SQL, SQL Server, Oracle 11g
- **Tools:** SSIS, SSAS, Microsoft Power BI, Tableau, MS Excel, IBM Watson, Google Analytics, Informatica, MicroStrategy, SAS Enterprise Miner, SAS Studio, JIRA, Confluence, MS Office, MS Project, MS Visio
- **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, A/B Testing
- **Hadoop Ecosystem:** HDFS, MapReduce
- **Certifications:** AWS Certified Solutions Architect (Pursuing), Tableau Desktop Specialist, Querying Microsoft SQL Server 2012/2014 (70-461), Data Warehousing for Business Intelligence, University of Colorado, Coursera