Akshay Gujjari

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EDUCATION

Master of Science | Computer Science **|** State University of New York at Albany **|** CGPA: 3.33 **|** Expected Graduation: May 2020.
Relevant Courses: Machine Learning, Data Mining, Artificial Intelligence, Statistics, Database Systems, Software Engineering.
Bachelor of Technology | Computer Science **|** Jawaharlal Nehru Technological University **|** Grade: First Class **|** Oct 2012 – May 2016.
Relevant Courses: Object Oriented Programming(Java), Web Technologies, Algorithms and Data Structures, Compiler Design.

EXPERIENCE

Data Analyst
New York state Department of Environmental Conservation | Jan 2020 – Present | Albany, NY.

- Build real-time distributed and reliable data pipelines that optimize data storage and analysis using Python, SQL, Airflow. Spearheading a research study to identify gaps in data collection, evaluation, analytical procedures and ensure data accuracy and integrity.
- Developing and maintaining exceptional visual storytelling dashboards using Python along with Dash, Plotly, MapBox, D3Js through data interpretation, analysis using statistical techniques, and integrating various reporting components from multiple data sources.

Data Research Analyst
Center for Technology in Government | May 2019 – Jan 2020 | Albany, NY.

- Designed applications for improving accessibility and usability of various datasets by enhancing data visualization techniques for dynamic and interactive dashboards using Shiny, D3Js, Plotly, Leaflet, helping to get insights about the water quality of New York State.
- Analyzed complex datasets in conjunction with various other datasets for completeness and statistical feasibility using advanced querying, analytical tools along with various R Libraries Dplyr, Tidyr, Lubridate, Shiny.
- Played a vital role in transforming and cleaning unstructured data using Python to conform to the business requirements. Improved the Data Mining processes, resulting in decreasing 15% time needed to understand insights from the structured data. Efficiently prepared scripts for data pipeline process and automated the workflow process of Data Conversion, Storage, and Distribution using ckan, Python along with Apache Airflow.

Associate Developer
Vistex Inc | March 2016 – July 2018| Hyderabad, India.

- Analyzed complex and dynamic SAP ERP data, drafted real-time operational reports on the application of mathematical concepts with user-oriented information and bundled data from agreements. Conceptualized and Implemented billing and invoice generation modules using SAP ABAP to streamline the decision-making process for clients and stakeholders.
- Recognized for performing tuning and optimizing SQL queries by using cost-based optimization, resulting in accelerating the performance by 20%. Deftly prepared customized dashboards for visualizing ERP data using Vistex software solutions as per client requirements.
- Managed the entire gamut of Development, Testing, Maintenance, Debugging of the data-centric applications.

SKILLS

- **Programming Languages:** Python, R, SQL, Java, C, JavaScript.
- **Database Systems:** MySQL, PostgreSQL, MongoDB.
- **Big Data Tools:** Spark, Hadoop, Hive, Kafka.
- **Data Visualization:** Tableau, Plotly, Dash, D3Js, Shiny, GGPlot2, Leaflet.
- **Python Libraries:** NumPy, Pandas, Matplotlib, Seaborn, Plotly, BeautifulSoup, OpenCV, Scikit-learn.
- **Data Analysis Tools:** Alteryx, Advanced Excel, OpenRefine.
- **Version Control:** Git.

PROJECTS

- **SOCIAL SERVICES AND CENSUS DATA ANALYSIS (Data Analysis, Jan 2020 – Present)** – Develop a dashboard to analyze and visualize social services data in conjunction with census data of New York Staten using Python, Dash, Plotly, Pandas, MapBox, NumPy.
- **ASL INTERPRETER (Machine Learning, Jan 2019 – May 2019)** – Developed a machine learning project which interprets the sign language images, videos, and converts them to specific English language letters and phrases. It uses Python, OpenCV, SVM, NumPy.
- **NFL PLAYER STYLE ANALYSIS (Data Mining, Jan 2019 – May 2019)** – Developed a project which analyzes the playing style of each player, specifically quarter backs and analyzed how each player helped his team win the match . It uses Python, Matplotlib, NumPy, Pandas, Regression, Classification, and SVM concepts.

VOLUNTEERING EXPERIENCE

- Member of Executive Board, Indian Student Organization at SUNY Albany holding position as the Sports Chair.
- Campus Ambassador for PenApps Hackathon, largest college hackathon conducted in the United States.