

AGNES ARUL TRINITA S

Data Analyst

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SUMMARY

Experiences Data Analyst with a Master's degree in Data Science and over 1+ year of experience in data analysis and visualization. Proficient in a wide range of data tools including MS-Excel, Python, Jupyter, Tableau, and PowerBI. Experienced in handling large datasets from various databases, using SQL tools.

EXPERIENCE

Senior Data Analyst

I-PAC

📅 Present 📍 Hyderabad,IN

- Utilized Python for quality assurance by automating hourly data collection and processing. This initiative resulted in a significant 80% reduction in manual workload while ensuring real-time accuracy and up-to-date reports.
- Led the extraction and analysis of large datasets from multiple databases using SQL queries, encompassing over 11 lakh records, resulting in a remarkable 90% improvement in overall campaign performance by successfully identifying active users.
- Synthesized both quantitative and qualitative findings into actionable insights and communicated them effectively to diverse stakeholders. Additionally, designed Streamlit's user-friendly interface to create dynamic visualizations, enabling stakeholders to explore voter demographics, trends, and campaign strategies.
- Created dashboards for data visualization and analysis of user journeys in the mobile apps, encompassing the 2,300 monthly users, to effectively track and interpret usage trends.
- Automated web data collection using Selenium and BeautifulSoup, improving data quality, accuracy, and voter engagement.
- Developed custom heatmaps using QGIS and PowerBI visualizing vote share distribution, parties' electoral performance, and MLA achievements across regions.
- Collaborated closely with cross-functional teams to automate the extraction and analysis of shared files' information using Google Drive API.

EDUCATION

Master of Science in Data Science

Loyola College

📅 07/2020 - 03/2022 📍 Chennai, IN

GPA

8.5 / 10

Bachelor of Computer Application

Women's Christian College

📅 07/2017 - 07/2020 📍 Chennai, IN

GPA

7.5 / 10

SKILLS

Python(Pandas,NumPy,Matplotlib,Scikit)			SQL	Microsoft Excel	Power BI	Machine learning/Deep learning	
Statistics	Tableau	Data analysis	ETL	Data modeling	Data Manipulation	Data Mining	Data warehousing

PROJECTS

Brain Tumor detection using Deep learning

📍 Chennai, IN

- Developed a predictive analytics using deep learning model utilizing Resnet, VGG16, and CNN architectures to accurately detect brain tumors in MRI images.
- Preprocessed the images by resizing, normalizing, and augmenting the data to enhance model robustness.
- Applied feature engineering techniques to enhance model performance, accuracy, precision, recall, and F1-score on an independent test dataset.
- Achieved the highest accuracy of 75% using the CNN architecture, showcasing its superior performance for this task.

Political Sentiment Analysis on Social Media

📍 Hyderabad, IN

- Conducted a machine learning project analyzing political sentiment on social media platforms during a prominent election campaign.
- Utilized data collection, natural language processing (NLP), and predictive modeling techniques to gain insights into public sentiment, key issues, and trends.
- Employed machine learning algorithms, including Naive Bayes, to perform sentiment analysis on the collected data.
- Applied the trained model to analyze sentiment across the entire social media dataset and created visually engaging reports, including word clouds and time series charts, to illustrate sentiment trends.
- The improved campaign strategy resulted in a 20% increase in the number of positive reviews on social media.