Tulasi Ram Chippada

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SKILLS

- **Programming Languages :** Python, MySQL.
- **Tools & Technology :** Power BI, S3, Glue, Lambda, Cloudwatch, Redshift, PySpark, Hadoop, Matplotlib, Excel, HTML, CSS, Bootstrap.
- **Operating Systems :** Linux, Mac, Windows.
- **Soft Skills :** Team Player, Bias for action, Deliver result, Leadership, Excellent Communication (written and oral).

WORK EXPERIENCE

ISRO, National Remote Sensing Center | Hyderabad   Aug 2023 - Present
Graduate Apprentice | Python, Pandas, Matplotlib, Exiftool, Excel, XML

- Designed and implemented an automated ETL toolkit using Python, Pandas, and Matplotlib to process global NETCDF files. Achieved a 50% increase in workflow efficiency and an 80% reduction in processing time, leveraging Geopandas for comprehensive analytics.
- Engineered Python scripts utilizing Pandas and Matplotlib to analyze and visualize geographic time series data, enhancing data visualization efficiency by 40% and accuracy for informed decision-making.
- Spearheaded the automation of metadata extraction from images using Python's Exiftool library, resulting in a remarkable 90% reduction in manual effort, saving over 30 hours weekly.
- Automated data extraction from a repository of 20,000+ XML files using DFS Algorithm, slashing processing time and human effort by 200%, optimizing data workflows significantly.
- Identified and resolved critical data pipeline issues, reducing downtime by 50% through proactive problem-solving and technical expertise.

EDUCATION

Aditya Institute of Technology And Management (AITAM) | Srikakulam   Aug 2020 - May 2023
Bachelor of Technology in Computer Science and Engineering   *CGPA: 7.89/10*
Relevant Coursework | Object Oriented Programming, DBMS, Discrete Maths, Data Structures and Algorithms, Operating Systems, Computer Networks, Machine Learning, Data Mining, Design Patterns, Software Engineering, Image Processing.

PROJECT

YouTube Data Analysis | AWS, Python, Power BI

- Led a project to streamline data cleaning processes in Python, reducing processing time by 50%.
- Implemented AWS Lambda for serverless data processing, improving efficiency by 40% and ensuring scalable data handling.
- Structured data storage in AWS S3, achieving a 30% reduction in storage costs compared to traditional solutions.
- Developed interactive Power BI dashboards and reports to visualize key metrics, reducing reporting time by 45%.

Sales Insights Data Analysis | Python, Power BI, MySQL, ETL

- Orchestrated the extraction and integration of sales data from diverse sources, managing over 10 million records.
- Applied SQL for data aggregation and manipulation, optimizing query response time by 30% compared to previous methods.
- Conducted statistical analysis and hypothesis testing, identifying a 10% increase in sales during promotional periods.
- Created intuitive Power BI dashboards, accelerating report generation by 25% and enhancing decision-making processes.

Achievements

- **Competitive Programming:** Participated in the AITAM National Level Code Fiesta, ranking 6 out of 459 participants.
- **Management :** The ASPIRE 2K23 Tech Fest, which attracted an impressive 950 attendees, was well organized by me as the central event coordinator of a team of 10 individuals.