ASPARSH RAJ

Jamui,Bihar

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🌐 Portfolio 🔗 LinkedIn GitHub Hackerrank LeetCode

EDUCATION

Saral Birla University	**Sept, 2022 – Aug, 2025**
*BCA - **CGPA - 8.7***	*Ranchi, India*

PROJECTS

Skill Mapper - Job Skills Visualization ↗ | Tech Stack:-Python, Power BI, Playwright   Oct, 2023

- Conceptualized and implemented an end-to-end Data Engineering project to analyze skill trends in the job market, aggregated by job title and location.
- Engineered a scalable data extraction script using Python, Playwright, and Web Scraping techniques to collect real-time job data from online sources, reducing manual extraction time by 67%.
- Employed data cleaning and transformation techniques to convert raw data into 800+ meaningful data points, ensuring accuracy and reliability for analysis.
- Applied Data Modeling principles to convert data into a Star Schema, enhancing querying capabilities and facilitating data visualization.
- Adhered to industry standards by following data normalization conventions, emphasizing ACID properties, ensuring data integrity and consistency.
- Developed an interactive dashboard in Power BI to visualize market trends and insights over 6 different data dimensions.

PySpark script for Batch Data Processing ↗ | Tech Stack:-Python, PySpark, Databricks   Oct, 2023

- Conceptualized and implemented a data pipeline to extract and transform weather data from open source weather API, demonstrating self-motivation and self-starter spirit.
- Engineered a scalable data processing script using PySpark to extract and transform raw weather data for analysis, leading to a 43% reduction in time required to manually transform the data on arrival.
- Aggregated hourly weather data worth over 7 days and visualized over 4 weather indicators using Tableau dashboards.
- Applied PySpark DataFrames to manipulate and transform data, ensuring the integrity and quality of the processed data.
- Upheld industry standards by following PEP 8 coding conventions, emphasizing code readability and maintainability.
- Documented the project thoroughly, providing clear insights into the problem-solving process and making the project accessible to others.

SKILLS

Languages: Python, SQL, C++, JavaScript, Java
Developer Tools: VS Code, Git, GitHub
Technologies/Frameworks: MySQL, PostgreSQL, ETL, Power BI, PySpark, Apache Kafka, Pandas, Numpy, Matplotlib, BeautifulSoup, Linux, Bash Scripting, Web Scraping, Playwright
Coursework: Data Structures & Algorithms, Software Engineering, Database Management System (DBMS)
Other Skills: Problem Solving, Analytical Thinking, Written Communication, Verbal Communication

EXTRACURRICULAR

Google Student Developer's Club - SBU	**Aug 2023 – Aug 2024**
Location	*Role*

- About the role **and responsibilities carried out.**
- Participation Certificate. ↗

CERTIFICATIONS

- Python Basics Certificate - Hackerrank
- Google Cloud Data Engineer Professional Certificate - Coursera
- SQL Basics Certificate - Hackerrank
- IBM Data Engineering Professional Certificate - Coursera