**SCOPE**:

Aditya is a Full Stack Developer in the Treasury Department since the past two years and he has taken on the following key responsibilities:

1. Designing, developing and maintaining big data pipelines for processing data and generating reports.
2. Implementing a variety of functionalities on the Saturn platform to enhance flexibility for business users.
3. Devising rapid and efficient ADHOC solutions while offering support to mitigate disruptions in the production environment.
4. Handling intricate ingestion use cases that necessitated seamless coordination between the Upstream and Business units.

* In the production environment, aditya has worked on several critical issues related to report generation several potential scenarios could have acted as blockers. Rishab addressed these challenges using **Python Scripts as effective workarounds** to meet crucial business requirements:

This smooth functioning of critical processes, minimizing downtime and enhancing overall productivity in the production environment.

* To meet a distinctive business requirement, Aditya conceived and executed a pipeline in an innovative manner, resulting in a remarkable reduction of time from **40 minutes to just 5 minutes**, translating to an **87% decrease in time**.

* In UAT, several infrastructure issues arose, one recurring problem was the Namespace Quota issue in HDFS. He investigated the matter and traced it back to a source being tested by the upstream team. To rectify the situation, he promptly **removed 5,396 files**, effectively reducing the file count from **10,661** to **5,292**. As a result, he successfully **eliminated 465 unnecessary labels** from the source, resulting in over **50% savings in terms of space**.
* In addition to his contributions mentioned earlier, he streamlined support activities and **reduced the number of clicks required** to accomplish tasks efficiently by equipping the Production Support team with **Python** and **Control-M** solutions. He has been instrumental in bringing them up to speed by conducting thorough handovers and he has created well-organized & comprehensive documentation.

**EXPERIENCE**:

For the past two years, Aditya has served as a Full Stack Developer in the Treasury Department. He joined the team as a graduate in 2021 and has gained valuable hands-on experience in a range of technologies, including:

1. Backend Technologies: Scala, Spark, Java, and Python.
2. Frontend Technologies: Angular, React.
3. Databases and Frameworks: Oracle, Hive, and Impala.
4. Cloud Services: OpenShift and Google Cloud Platform.
5. Agile Business Technologies: JIRA, Confluence, and Bitbucket.
6. Other Technologies: AI/ML, Blockchain.

Aditya has made significant contributions, as outlined below:

1. He designed and implemented a **modular upload functionality** for the Saturn V3 platform, which also includes custom validations, making it easily adaptable for use by other teams.
2. He proposed and executed a **dynamic and intricate Rule Engine** to filter and allocate data in alignment with **business requirements**, utilizing a distinctive methodology.
3. He introduced strategies for **Architectural Optimization**, such as the consolidation of multiple Spark Jobs into a single one, resulting in a **50% reduction in job submission time** and quicker processing initiation. This solution led to an **impressive 87%** overall **processing time reduction**, further enhancing the system's performance.

Smart Recruiter:

Aditya built an **AI-based recruiting tool** called "Smart Recruiter" for PACE Department. His involvement includes **designing and implementing** the entire machine learning (ML) component of the tool, enabling it to extract essential information from resumes and match CVs with specific job requirements using ML algorithms. This tool has the potential to save around **200 days of manual work**.

Cassiopeia:

Aditya possesses notable expertise in the field of blockchain technology. He is actively involved in the development of a **trading platform and bond issuance** on blockchain technology. He adeptly creates **smart contracts** using Solidity.

Furthermore, Aditya makes significant contributions to the **Line of Sight application**, which is utilized by the **Scrum and capacity management team**. He skillfully implements new requirements within both the user interface (UI) and the backend of the application.

**ACHIEVEMENTS AND BEHAVIOUR**:

* Aditya achieved **Distinction** in the DBCE (Deutsche Bank Cloud Engineer) Sprint-4 upon graduating.
* Aditya has taken part in over **6 hackathons**, achieving a global 4th position in a blockchain hackathon. In a recent AI Hackathon, he and his team created an Infrastructure Alert Monitoring System aimed at reducing system downtimes. This solution holds the potential to be implemented across diverse systems within DB, including OpenShift, HUE, Confluence, and Bitbucket.
* Aditya has provided comprehensive Python and data science training to the Mumbai Treasury team.

**DIVERSITY AND INCLUSIONS**:

* He volunteered in supporting Deutsche Bank's Graduate Recruitment for the 2023 batch. As a member of the Tech Panel, he **conducted in-person interviews of** **80+ candidates** at prestigious institutions such as IIT (BHU), TSEC, Mumbai, and Cummins College, Pune.
* Aditya has actively participated in CSR activities like the **Blood Donation Drive,**  **Mock Interviews for Youth** program.
* In the "**Power of One**" initiative, he created sturdy bags from old newspapers, promoting sustainability and environmental conservation in an attempt to reduce waste generation. His cumulative contribution to CSR activities amounts to **53.25 hours**.
* He collaborates with a diverse group of individuals from various domains, genders, and experience levels and conducts various informative sessions on AI/ML that witness a **participation of 100+ employees on an average**.
* Outside of his professional responsibilities, Aditya shares his expertise by writing **blogs** and posting value-add finance-related **video content on LinkedIn**.