**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:

2022-Present - Team Rico:

1. Designed, developed, and maintained big data pipelines for processing and generating reports.
2. Implemented diverse features on the Saturn UI, including upload/download, role-based access, and report integration.
3. Executed changes in Poller, Orchestrator, and Cassini-Engine components.
4. Devised solutions for enhanced business flexibility: Dynamic Rule Engine, Historical data preprocessing.
5. Provided support to mitigate production environment disruptions.

2021-2022 - Team Mercedes:

1. Revamped the Saturn Uploader through the implementation of a microservices architecture.

2. Built Developed a fresh user interface and deployed it on the fabric.

* 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**.
* He developed "Smart Recruiter," an AI-based hiring tool for the PACE Department. He designed and implemented the entire machine learning component, enabling the tool to extract vital information from resumes and match CVs with job requirements using ML algorithms.
* 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.
* Additionally, Aditya plays a crucial role in enhancing the Line of Sight application, used by the Scrum and capacity management team. He adeptly incorporates new requirements into both the user interface (UI) and the application's backend.

**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 developed "Smart Recruiter," an AI-based hiring tool for the PACE Department. He designed and implemented the entire machine learning component, enabling the tool to extract vital information from resumes and match CVs with job requirements using ML algorithms.

Cassiopeia( Solidity, React, Node.js, GCP ):

Aditya's impactful project contributions include:

1. Developing an Ethereum blockchain ERC-20 smart contract for bond issuance.
2. Establishing an in-house platform to execute actions on smart contracts, like transfers, burns, and whitelisting.
3. Leading the creation of an end-to-end in-house management tool to facilitate diverse blockchain use cases.

Line of Sight ( Angular, SpringBoot, JIRA ) :

Aditya is actively implementing changes in this application, which includes :

1. Displaying multiple metrics on-screen to enhance capacity analysis.
2. Implementing dynamic JIRA queries that handle both new and old formats.
3. Introducing multithreading for quicker responses.

**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.

Integrity :

**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**.