Adhikram Maitra ⚯

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Experience

MEDIA.NET (Directi)   Remote, India
Data Application Developer 2 · Stack:- Scala, Java, SQL, Spark, Kafka, PySpark, Hdfs   *October 2021 - Present*

- DANTE (Data Anomaly Tracker)   *Stack:- Scala, Spark, Hive*
  Scale:- Comparing between nearly 3 Billion and 200 Million Rows in 30 minutes

  * Conceptualized our first configurable data quality tools which fortified data integrity for pipelines.
  * Optimized parallel data reading, leading to a 60-pct reduction in data (>100GB) processing time, enabling developers to perform real-time data validation and trend analysis for voluminous datasets.
  * EQ Tracer: A tool to monitor summative metric trends across configurable hierarchies with dynamic alerting mechanisms to filter out noise data, ensuring accurate insights.
  * Ratio Tracer: A tool for outlier detection using customizable percentile thresholds, enabling the proactive identification and mitigation of anomalies.
  * PM Tracer: A logging and monitoring tool that aggregates data from multiple sources, providing detailed coverage and mismatch analysis for enhanced data quality and system reliability.

- Spark Submit Orchestrator   *Stack:- Bash, SQL*

  * Developed an orchestrator for Spark submissions and PySpark scripts, dynamically fetching configuration from MySQL. This centralizes and tracks job configurations, while providing data for performance monitoring.

- StopLoss System   *Stack:- Java, Structured Streaming, Batch Processing*
  Scale:- Fetching 50k records per second from Kafka and processing it in 5 minute bucket

  * Shifted Spark Streaming to Structured Streaming, leading to a 50-pct reduction in latency and improved error handling, which also added exactly-once assurance that terminated the data audit pipeline.
  * Implemented A/B testing to gain insights into traffic patterns and loss thresholds for individual entities. This initiative led to a remarkable reduction (15-pct) in overall losses, significantly contributing to the company's research and development efforts and generating tangible improvements in profitability.

DEVSNEST   Remote, India
Backend Engineer · Stack:- Ruby on Rails, Python, Redis, Amazon SQS   *October 2020 - October 2021*

- Discord Automation and Notification System   *Stack:- Ruby on Rails, Python, Amazon SQS*
  Scale:- Sending 2k messages per day. Reaching 10k Users in 3 months

  * Pioneered automation for group moderation on Discord through website, unlocking the peer-learning aspect of the product. Resulted in reduced management costs with increased community engagement.
  * Developed an orchestrator for Spark submissions and PySpark scripts, dynamically fetching configurations from MySQL. This centralizes and tracks job configurations while providing data for performance monitoring.

Education

Cooch Behar Government Engineering College   West Bengal, India
Bachelor of Computer Science and Engineering ; CGPA 8.8/10   *Jun 2017 - May 2021*

Projects

Equal Collective(In Progress) | ◉ | Stack:- *AWS, Node.js, Postgres, Azure, Metabase*   January 2024 - Present
- Developed a lead management platform for the sales team, enabling efficient tracking of large datasets.
- Built a backend system that automates human-like analysis of leads, providing actionable insights to the sales team.

Fuzzy Tutor (In Progress) | ○ | Stack:- *AWS ,Ruby on Rails, React.js, MySql*   January 2023 - Present
- Created an Online Exam system for Teachers to conduct Competitive Exams.
- Build the Backend from scratch on AWS, supported by a postgres database hosted on Vercel.

Technical Skills

Languages | *Scala, Java, Python, SQL (MySQL), Ruby, C++*
Tools | *Jenkins, Git, Oozie, EC2, Ngnix, Redis, AWS*
Fundamentals | *Design Patterns, Object-Oriented Programming, Distributed Systems, ETL, Data Modeling*
Data Stack | *Spark, Structured Streaming, Kafka, EMR, HDFS, Hive, PySpark*