

Ravindra Saragadam

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DATA ENGINEER

Data Engineer with 6+ years of experience driving significant improvements in data quality, efficiency, and insights for Fortune 500 companies and high-growth startups using cloud platforms (AWS, Azure) and big data technologies (Spark, Databricks).

WORK EXPERIENCE

6sense • Bengaluru, Karnataka, India • 01/2022 - Present

Software Engineer, Data III • Full-time

- To tackle the inefficiencies and lack of quality controls in the existing phone and email update processes, I designed and implemented scalable data engineering modules that ensured timely and accurate data synchronization. Using **Python and Spark**, I built robust ingestion pipelines that included quality checks, data cleansing, and suppression mechanisms to handle over **10 million updates daily**. Additionally, I created separate pipelines for email prediction and grading based on vendor data, which helped us stay ahead of data privacy compliance requirements. The result was a **99% SLA adherence rate**, significantly improving data accuracy and reliability. This not only streamlined our operations but also gave other teams access to high-quality, graded email data, making their workflows more efficient and enabling better decision-making across the board.
- Architected and maintained the data ingestion layer for the RevAI app's Global Search component, leveraging **Spark** to manage full and daily updates of OpenSearch indexes. Automated the full refresh process, minimizing downtime and ensuring **seamless, low-latency updates for all international users**. Optimized Spark configurations for daily updates, preventing CPU overpressure and maintaining consistent search availability across the platform.
- To ensure compliance with EU data privacy regulations, I engineered a high-throughput, **GDPR-compliant data pipeline** capable of automating email notifications for over **200,000 data subjects daily**. To address potential domain reputation risks, I implemented a sophisticated scheduling and throttling mechanism that optimized send rates while maintaining deliverability. Additionally, I built a real-time event processing system using **Kinesis and Spark** to capture delivery statuses via webhook integration, enabling automated data quality monitoring and seamless synchronization with Hive. This system not only eliminated manual tracking but also improved data compliance and provided actionable insights, empowering teams to make more informed decisions.
- Mentored interns and junior developers, onboarding new team members, providing knowledge transfer on system architecture, on-call operations, and data quality best practices. Served as the technical lead for SLA management and support ticket resolution, leveraging domain expertise to guide the team in resolving customer escalations and ensuring service availability.

Flipkart • Bengaluru, Karnataka, India • 05/2021 - 01/2022

Data Engineer • Full-time

- To address challenges with Flipkart's Inventory Valuation platform, I implemented and significantly enhanced its capabilities to process **15-20TB of daily inventory movement data**, creating a comprehensive lineage graph for billions of items. I developed a scalable **Spark-based solution** that leveraged in-executor Elasticsearch writes, overcoming driver memory limitations and achieving high throughput. This innovative approach reduced processing time, eliminated Out-of-Memory (OOM) errors, and delivered **\$100K in annual resource cost savings** while ensuring timely data availability for downstream reporting. Additionally, I reduced errors in financial reports by **15%**, significantly improving the accuracy and reliability of financial reporting. As the project lead, I successfully onboarded and mentored new team members, fostering collaboration and driving the project to successful completion. Through technical innovation and leadership, I ensured the platform met business needs while enhancing operational efficiency and data quality.

- To prepare Flipkart for potential high-stakes scenarios like the **India IPO by Walmart**, I created and optimized critical financial reporting systems using **Scala and Spark**. This reduced report execution time from **5–6 hours to under 1 hour**, ensuring faster data delivery and improving operational efficiency. The enhancements strengthened the reliability of financial reporting, ensuring readiness for future milestones.
- Designed, maintained, and optimized core modules of Flipkart's Accounting and Financial Reporting system, processing **1+ billion records monthly**. This system provided critical data for accurate financial statements, contributing to the company's annual revenue of **\$6-10 billion** and enabling informed financial decisions that led to a **5% increase in operational efficiency**.
- To enhance the efficiency of month-end closing processes, I led the development of an **automated Inventory Validation framework**. By collaborating with stakeholders and implementing comprehensive data quality checks using **Spark and Python**, I reduced data validation time by **70%**, freeing up **10 hours per week** for the on-call support team and enabling faster identification and resolution of discrepancies.

Fractal Analytics • Bengaluru, Karnataka, India • 07/2019 - 05/2021

Data Engineer • Full-time

- Architected and implemented a data flow model for a Fortune-500 client, automating the ingestion of massive amounts of data on a daily basis (~5TB/day) using Microsoft Azure platform tools. The solution provided data for more than 50 internal projects, enabling informed business decisions.
- Developed an automated data transforming and warehousing application for a finance client that reduced processing time by 90% across various use cases. Utilizing PySpark, Pandas, and Azure tools, the solution delivered an optimal data processing approach.
- Created a data ingestion framework and key value-based nested spark struct schema to track customer journeys across functions. The solution used Airflow, PySpark, Hive, and Hadoop technologies. Over 25 dashboards were powered by the insights generated.
- Revamped the process of scraping, transforming, and generating financial reports for a client with 43 different projects. The solution was used to optimize profitability and business decisions.
- Presented project results to the client in the context of their business, adding value and improving best practices to enhance quality and productivity.
- Led weekly client sync-ups, delivering valuable insights and gathering information for upcoming use cases.

Associate (Data Engineer) • Full-time

- Spearheaded the design and implementation of a cutting-edge data consolidation tool for the UK and Russia Markets on the Cloud. This resulted in a significant reduction in analyzing Profit and Loss statements by up to 500 human hours per year.
- Optimized data analysis and extraction for an e-commerce client to streamline revenue analysis through portal sales, reducing manual analysis time by approximately 3x faster.
- Developed a fully automated solution for a Europe-based client using third-party data to enable seamless scaling of solutions across markets (UK, Poland, France, etc.). The solution addressed required business concerns, resulting in a 30% reduction in overall lag time for generating insights.

MAQ Software • Hyderabad, Telangana, India • 09/2018 - 07/2019

Software Engineer Intern • Internship

- Created a performance reporting template, achieving an 80% reduction in the preparation time of the standard client materials.
- Assisted Microsoft Asimov Support in getting business insights from the data generated user input forms which reduced manual intervention by over 80%. This end to end process was built using Python and Power BI.
- Extracted data from Twitter and Facebook APIs to perform sentiment analysis on about 15 personal care products.
- Ideated a new approach for preparing dashboard on sales data using Power Query reducing launch time by 90%.
- Initiated customer issues resolution, 30+ live sessions across 8+ countries, 3% improvement in CSI.

SKILLS

Data Analysis, Data Structures, Data Warehousing

Big Data Tools: Apache Spark, Hadoop, Hive, Kafka

Languages: Python, Scala, SQL

Cloud Platforms: AWS (S3, Kinesis, EC2, Lambda), Azure (Data Factory, Blob Storage, ADLS, Databricks)

Databases: ElasticSearch, Hive, MySQL, SingleStore

Tools: Airflow, Git, Pandas, Power BI

EDUCATION

Bachelor Of Technology in Computer Science

Vignan's Institute Of Information Technology • GPA: 3.1 • 05/2015 - 04/2019

Main coursework: Data Structures, Design and analysis of Algorithms, Computer Architecture, Database Systems, Operating Systems, Software Engineering, Cloud computing and Networking.