

Nikhil Yeminedi

Data Engineer/ Analyst

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PROFESSIONAL SUMMARY

- Accomplished Data Engineer with 2.5 years of experience at Tata Consultancy Services (TCS), specializing in the design and implementation of large-scale data processing systems.
- Proficient in leveraging cutting-edge big data frameworks and technologies, including Hadoop, Spark, YARN, MapReduce, Hive, and Kafka, to optimize distributed data workflows and pipeline performance.
- Expertise in complex data migration strategies, ensuring seamless integration and migration of diverse datasets across heterogeneous environments while maintaining data consistency and integrity.
- Adept in performing advanced SQL-based analytics, creating efficient queries, and employing data modeling techniques to support data-driven decision-making processes.
- 1.3 years of experience as a Web Developer with proficiency in architecting dynamic, responsive, and high-performance web applications using modern frontend and backend technologies.
- Deep understanding of scalable, cloud-native solutions and leveraging tools like JavaScript and database technologies.
- Renowned for delivering robust, scalable, and production-grade solutions within high-pressure, time-sensitive environments while maintaining a strong focus on technical excellence and quality assurance.
- Exceptional collaborator, skilled in cross-functional teamwork, and adept at managing end-to-end project lifecycles with a sharp focus on achieving business goals through innovative, data-driven strategies.
- Passionate about utilizing advanced technical capabilities to drive business transformation, optimizing processes, and enabling organizational growth through data-centric solutions.

KEY TECHNICAL SKILLS

- Operation System** : Windows series, Linux, Mac OS
- Data Eco System** : Big Data, Hadoop, Hive, Tomcat, Sqoop, Apache Spark
- Cloud** : Microsoft Azure, Cloudera , AWS (S3).
- Database Management Tools** : SQL (Oracle, MySQL, MS SQL Server), HQL, RDMS.
- Programming Languages** : Python(NumPy, SciPy, Pandas, scikit-learn, Matplotlib, Plotly)Deep Learning and Machine Learning Packages, RNN, CNN, NLP, Scala, Neural Networks, Natural Language Processing.
- Other Tools and Technologies** : Advanced MS Excel, MS Office, Google, IntelliJ IDEA, MobaXterm , Jenkins, Postman,Spreadsheets, PowerPoint, PySpark, Git, Jupyter Notebook,Tuber Dag's .

WORK EXPERIENCE

Data Engineer / Analyst - Tata Consultancy Services | On-site | Duration: 2.5 Year

July 2022 – Dec 2024

As a Cloud Big Data Engineer with expertise in robust analytics and a customer-centric approach, I excel at codifying complex data processes and providing actionable insights through a service-oriented lens. My strong communication skills ensure client satisfaction while delivering high-quality, scalable solutions.

Projects:

GFDM (Global Federated Data Mart) - Client : Visa

- Led data analysis using **SQL** to assess data integrity and perform comprehensive quality checks, ensuring accuracy across systems.
- Designed and implemented a strategic **system blueprint** for high-performance **data processing pipelines**, utilizing **cloud platforms**, **ETL frameworks**, and **Tuber DAG** for workflow orchestration.
- Applied **HQL** to query and manage data within Hadoop-based systems, ensuring data integrity.
- Conducted thorough **validation checks** on **data mart content**, ensuring successful rollout into production environments with minimal disruption.
- Integrated multiple Data Marts into a unified **global data mart**, enabling global users to efficiently **discover, define, produce, and consume** data.
- Analyzed large datasets to determine the most efficient methods for **aggregation** and **reporting**, leveraging **Big Data** technologies like **Hadoop** and **Spark** to optimize performance.
- Implemented **Scala** code for the development and optimization of data pipelines, enhancing performance and scalability.
- Applied **advanced data warehousing** techniques and **cloud-based storage solutions** to enhance **data integrity** and retrieval, optimizing operational workflows.

TUSKER - Client : Visa

- Extensive expertise** in the **Hadoop** and **Spark** ecosystems, with in-depth knowledge of **YARN**, **MapReduce**, **Hive**, **Sqoop**, **Oozie**, and **Kafka**.

- Led **data migration** initiatives using **Hadoop, Maven, Java, and Scala**, ensuring seamless data transitions to higher environments while maintaining **data integrity**.
- Managed and reviewed **Spark driver** and **YARN** log files, troubleshooting and resolving issues to ensure optimal performance in distributed processing environments.
- Proficient in working with **Unix** and **Linux** operating systems, utilizing advanced command-line utilities for efficient data handling and system management.
- Expertise in **data wrangling**—compiling, cleaning, and manipulating large datasets to ensure smooth processing
- Thrived in **fast-paced environments**, applying effective time management techniques to consistently meet tight deadlines without compromising on quality.
- Collaborated effectively across cross-functional teams, optimizing workflow and achieving technical objectives through teamwork and productivity.

Web Developer - Steed 26 Solutions Pvt Ltd , Bengaluru , India | Remote

March 2021 - June 2022

- *Hospital Records Management System (HRMS) | Duration: 1.3 Year*

Front-End Development:

- Designed and implemented responsive, dynamic user interfaces using **HTML5, CSS3, JavaScript (ES6+)**.
- Integrated complex **RESTful APIs** with asynchronous data handling via **AJAX**, ensuring seamless client-server communication.

Collaboration and Agile Methodology:

- Collaborated with cross-functional teams (design, back-end, QA) in an **Agile** environment, participating in sprint planning, retrospectives, and daily stand-ups.

Key Achievements:

- Engineered interactive dashboards using libraries like **D3.js** and **Chart.js** to enable real-time data visualization for hospital administrators.
- Automated deployment pipelines using **Jenkins, Docker**, and **CI/CD workflows**, accelerating release cycles and minimizing manual intervention.

EDUCATION

Masters in Computer Science

Georgia State University, Atlanta, Georgia

January 2025 – Present

Bachelors in Computer Science

Jawaharlal Nehru Technological University Kakinada, India

CGPA: 3.5/4.0

August 2018 – June 2022

CERTIFICATIONS

- **AWS** Cloud Practitioner.
- **Moving Data into Hadoop** offered by **Big Data University** through cognitiveclass.ai, powered by the **IBM**.
- Certified and completed courses Big Data , Unix , SQL , Git from LinkedIn Learning's
- Certified DBMS , C Programmer, Java. (NPTEL) ,Received Silver Medal Certificate From IIT Kharagpur in JAVA.
- Linux Essentials Professional Development Certificate (CISCO Networking Academy)

PROJECTS

- **Finland Labs - Student Intern** , India | April 2021

Trained on Machine Learning, Artificial Intelligence, and IoT using AWS.

Worked extensively on the development of two key projects:

Cat & Dog Classification Using Convolutional Neural Networks (CNNs) & Home Automation Using AWS on Cloud.

- **Hand Gesture Recognition System for Sign Language Using Deep Learning.** (03/2022 - 05/2022)

The objective of the project is to design a GUI which helps deaf and dumb people to easily communicate with normal people.

Research paper publication: <https://www.researchgate.net/publication/361465545>

- TextImg GUI - A tactic of encrypt and decrypt for both text and images
- Paper Presentation on Extracting Hidden Data from Image (09/2019)

ORGANIZATIONS

National Service Scheme (NSS) | India

October 2018 - April 2022