

# Ashish Kumar Jha

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## Summary

**Senior Analyst with 4 years of experience** in data automation and AI solutions using **Python, SQL, and AI/ML libraries like LangChain and LlamaIndex**. Proven in developing **generative AI / Agentic AI applications**, building **Looker and Power BI dashboards**, and optimizing processes. Skilled in **GCP** and backend development, I'm now seeking a **Data Engineering** role to apply my combined analytical and development expertise.

## Skills

- **Languages:** Python, SQL, SAS, JavaScript, HTML
- **Frameworks/Libraries:** Pandas, Matplotlib, Flask, Scipy, Scikit-Learn, Selenium
- **Databases:** MySQL, PostgreSQL, MongoDB, Hadoop, PySpark
- **Tools:** AWS, GCP, Git, Docker, Jira, IBM Mainframe, BlueZone
- **Concepts:** ETL, SDLC, STLC, Agile, Machine Learning, Object Oriented Programming, Data Structures and Algorithm

## Experience

**Senior Analyst**, Concentrix – Gurugram, India Sep 2024 – Present

- Developed and deployed **generative and agentic AI applications** for clients, enhancing intelligent automation and decision-making.
- Led **competitor analysis and internal process research**, identifying key areas for improvement and **reducing turnaround time**.
- Designed and implemented **Looker and Power BI dashboards** enabling data-driven insights for stakeholders.
- Contributed to **backend development using App Script / JavaScript**, collaborating with software engineering teams.
- Applied proficiency in **Python, LangChain, LlamaIndex, SQL, GCP**, and Google's suite of tools for development.

**Analyst**, Wipro – Gurugram, India Sep 2021 – June 2024

- **Data Management and IBM Mainframe Operations:** Implemented SAS code base for comprehensive data processing tasks, including data extraction, transformation, and loading into the DB2 environment. Created and managed JCL jobs, leveraging SAS programming for data ingestion, modeling, and transformation into the DB2 database.
- **Automation Testing:** Employed in-house automation tools, including a Python (Selenium) based tool, to test web applications and internal tools used by the operation team, ensuring robust system performance and increasing efficiency by 30%.
- **System Configuration and Enhancement:** Conducted comprehensive configurations and customization's for the TBA system, improving client satisfaction scores by 25% and reducing support inquiries by 30%.
- **Project Management and Collaboration:** Reported bugs and managed workflows following Jira agile methodology. Worked closely with cross-functional teams to troubleshoot and resolve issues, contributing to a 20% reduction in system downtime through effective issue resolution and proactive maintenance.

## Projects

### Real-time User Data Streaming Pipeline

- **Tech Stack:** Apache Airflow, Kafka (Control Center, Schema Registry), Zookeeper, PostgreSQL, Spark, Cassandra, Docker
- Developed a **real-time streaming pipeline** leveraging a free API to generate and process user data, with the pipeline incorporating advanced technologies for data ingestion, processing, and storage to ensure high reliability and performance.
- **System Efficiency and Reliability:** Improved data ingestion efficiency through the integration of Apache Airflow and achieved high message delivery rate using Kafka and Apache Zookeeper for message brokering and coordination.
- **Optimized Data Processing and Accessibility:** Improved query performance and data accessibility using PostgreSQL and Cassandra, and increased data throughput with Apache Spark for real-time data processing and analytics.
- **Streamlined Deployment:** Reduced deployment time through Docker containerization and decreased manual deployment efforts through automation of deployment processes.

## Certifications

- **Apache Kafka Essential Training** - LinkedIn Learning
- **Data Science Master** - PW
- **GenAI for Everyone** - DeepLearning.ai, Coursera
- **Google Data Analytics** - Google, Coursera
- **Introduction/Advance SQL** - UpGrad
- **Design and Verification using Verilog | Intern** - Entuple Technologies Pvt Ltd

## Education

**Dr. A. P. J. Abdul Kalam Technical University**, B.Tech in Electronics and Communications

2017 – 2021

- CGPA: 8.14/10.0