

# Karan Singh Panwar



## CONTACT DETAILS

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## SKILLS

- Programming Languages: Python, SQL
- ETL Tools: IBM DataStage, AWS Glue
- Scheduling Tools: AutoSys
- Data Warehousing: Snowflake
- Big Data Processing: PySpark
- Cloud Services: AWS S3
- Version Control & CI/CD: GitHub, Jenkins
- Data Formats: JSON (semi-structured data)
- Soft Skills: Communication, Team Collaboration

## PROFILE

I am a proactive and results-oriented Data Engineer with around 3 years of experience in designing, building, and optimizing data pipelines. I began my career by implementing ETL pipelines using DataStage and SQL. In my current role, I've embraced cloud ETL and data warehousing technologies like AWS Glue, AWS S3, Snowflake, and PySpark, consistently delivering value by driving process improvements and collaborating with cross-functional teams. I am passionate about learning and applying new technologies to solve complex data challenges.

## EXPERIENCE

DATA ENGINEER at TCS (Indore).

2021.10–pres.

As a Data Engineer at TCS, I have spearheaded the development, optimization, and automation of data pipelines that enable critical business processes.

### Key responsibilities include:

- **Developed and Maintained:** Engineered and sustained ETL pipelines using IBM DataStage, ensuring seamless data integration from various sources for reporting needs.
- **Optimized Data Queries:** Crafted and fine-tuned SQL queries to efficiently extract, transform, and load large datasets.
- **Automated Scheduling:** Deployed AutoSys jobs to automate DataStage processes, ensuring timely and accurate execution of daily, monthly, and quarterly reports.
- **Engineered Cloud Integration:** Created AWS Glue scripts to extract data from Snowflake and load it into PostgreSQL, managing semi-structured data formats like JSON.
- **Enhanced Performance:** Refined ETL processes and SQL queries, driving improved performance, reduced run times, and greater resource efficiency.
- **Streamlined Testing:** Implemented unit tests and comprehensive documentation, slashing testing time by 60% and expediting deployments.
- **Integrated CI/CD:** Incorporated Jenkins and GitHub into the development pipeline, streamlining code deployments and collaborating with DevOps teams for system integration.
- **Collaborated Cross-functionally:** Partnered with cross-functional teams to gather and translate requirements into effective data pipeline solutions.

## EDUCATION

BACHELOR OF ENGINEERING IN ELECTRONICS AND COMMUNICATIONS..  
2017–21

## ACHIEVEMENTS

◇ Achieved TCS Digital milestone