# **GAURAV KUMAR**

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**WORK EXPERIENCE**

**Pratham Software Jaipur, Rajasthan**

*Senior Data Engineer October 2023 – Present*

* **Optimized Data Infrastructure for McKinsey’s Periscope Price Tool:** Supported and optimized data pipelines for the tool by designing scalable workflows that seamlessly processed diverse real-time market and consumer data, enabling dynamic pricing insights and driving revenue growth.
* **Built a flexible document parser:** Leveraged Python, Azure Document Intelligence, and GPT-4 to extract payroll data from diverse document layouts, employing robust data models and advanced error handling for scalable processing.
* **Developed dynamic system architecture:** Designed a modular template matching solution to adapt to varying payroll formats, ensuring seamless integration of new document types and enhancing overall system flexibility.
* **Built an intelligent chatbot solution:** Conceptualized and deployed a multi-functional chatbot for invoice automation using Langchain and Vanna.ai, integrating a vector database and text-to-SQL functionality to streamline user support and query resolution.
* **Enhanced collaboration and quality:** Utilized Git for version control and rigorous testing, incorporating user feedback to continuously refine both solutions and maintain high code quality.

**Mandelbulb Technologies Jaipur, Rajasthan**

*Data Engineer October 2022 – September 2023*

* **Engineered robust data pipelines:** Leveraged Airbyte, Databricks, and Azure Data Factory to extract data from diverse REST APIs and standardize it into FHIR format, reducing extraction time by 20% and enhancing data quality for healthcare analytics.
* **Streamlined workflow orchestration:** Utilized Airflow DAG factories, Kubernetes, and Docker to automate multi-tenant data processing and alerting, cutting tenant onboarding time by 50% and boosting deployment efficiency by 25%.
* **Optimized ETL processes for actionable insights:** Employed Azure Functions and incremental loading techniques to transform data and calculate KPIs, driving a 40% improvement in decision-making efficiency while reducing data redundancy by 25%.
* **Implemented agile engineering practices:** Adopted best practices and agile methodologies via Azure DevOps (boards and repos) and open-source tools, ensuring continuous process improvement and effective cross-team collaboration.

**Techno Solar Power Jaipur, Rajasthan**

*Data Engineer October 2020 – September 2022*

* **Modernized ETL workflows**: Architected the migration from an on-premise SQL data warehouse to Azure Cloud using Synapse Pipelines, Data Lake Gen2, and Databricks for seamless SAP data ingestion.
* **Enhanced processing efficiency:** Transformed legacy SQL stored procedures into optimized PySpark scripts, leveraging in-memory computation and Delta Lake to reduce pipeline runtimes to 5–8 minutes.
* **Empowered data-driven insights**: Redesigned data models with Fact-Dimension modeling on Azure Synapse, enabling real-time Power BI reporting and the development of actionable KPIs.

**PERSONAL PROJECTS**

**Real-Time Activity Tracker** *January 2025 - Present*

*Tech Stack: Kafka, Spark, Flask, Grafana, TimescaleDB, Docker, Git*

**TicketAssist AI** *November 2024 - January 2025*

*Tech Stack: LangChain, ChromaDB, Ollama, FastAPI*

**EcoPulse Dashboard** *December 2024 -**January 2025*

*Tech Stack: FastAPI, LangChain, Azure OpenAI, PowerBI*

**CERTIFICATIONS**

* **Microsoft** | Azure Data Engineer Associate (DP-203)
* **Databricks** | Fundamentals of the Databricks Lakehouse Platform Accreditation

**SKILLS & INTERESTS**

**Skills:** Python | SQL | ETL | Data Engineering | Apache Spark | Apache Kafka | PySpark | Azure Databricks | Azure Data Factory | Apache Airflow | Airbyte | Azure Data Lake | Docker | Git | Agile | Generative AI | LLM | RAG | LangChain | Vector DB | Ollama | FastAPI | Document Intelligence

**Interests:** Artificial Intelligence, Reading

**EDUCATION**

**MBM Engineering College** **Jodhpur, Rajasthan**

*B.E. in Computer Science & Engineering Graduation Date: September 2020*

* Organizations/Awards: Directed a successful Theatre Society stage play production, awarded Second Prize in an AI Debate Competition by the Institution of Engineers, Jodhpur.