RISHABH KUMAR KANDOI

Data Engineer

Master's in Data Science | Bachelor's in Computer Science & Engineering

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CAREER OBJECTIVE

Results-driven Data Engineer with **5+ years** of experience in **data processing**, **ETL**, and **data analytics**. Proficient in **Python**, **SQL**, **Azure**, and **Machine Learning**, with a proven track record in optimizing workflows, automating processes, and enhancing decision-making. Skilled in managing large datasets and implementing scalable solutions that drive business efficiency. Looking to leverage my expertise to deliver impactful data solutions.

WORK EXPERIENCE

- **Microsoft,** Redmond**,** WA**,** USA | **Data Engineer** | Contract   *Mar 2024 – Present*
  - Managed M365 sales data in **GDC**, enabling 20% improvement in customer retention and optimizing conversion rates for the sales team.
  - Led migration of **3TB+** data from OnPrem & Azure SQL Server to **Microsoft Fabric**, streamlining processes and reducing overhead.
  - Automated 15+ manual tasks with Fabric/ADF Pipelines/Logic Apps, reducing manual intervention by 90% and integrating error handling & real-time email notifications.
  - Re-engineered slow SQL processes into **PySpark** notebooks with multi-threading, improving processing speed by **99.99%,** cutting down time from **3 days to 30 seconds.**
- **People Tech Group,** Redmond**,** WA**,** USA | **Data Engineer**   *Dec 2023 – Present*
  - Led PoC for **Azure** Pipeline to compare 100+ **Power BI** reports, cutting manual comparison efforts by 60%.
  - Conducted PoC for MS Fabric's Copilot integration across 5+ services, enhancing automation and boosting workflow **efficiency**.
- **Freelancer,** NY**,** USA | **Data Engineer / Data Scientist**   *May 2023 – Nov 2023*
  - Utilized Python (NumPy, Pandas, Seaborn, Matplotlib) for data cleaning and engineering, improving **data quality** and processing efficiency.
  - Optimized **SQL** procedures, reducing database update time by 20%, increasing overall data processing speed.
  - Collaborated on **NoSQL** solutions (MongoDB), enabling faster data retrieval and analysis for enhanced insights.
- **Paytm Payments Bank,** Noida**,** India | **Senior Software Engineer - Data**   *Sep 2021 – Aug 2022*
  - Optimized Java and SQL queries, processing **20M+ daily transactions**, with improved error handling and system resilience.
  - Utilized **AWS Glue ETL**, boosting data analytic throughput by 25% through integration with S3 and Redshift.
  - Led Money Transfer team projects, enhancing user experience and increasing customer retention by 30%.
  - Enhanced transaction notifications, reducing errors by 25% and improving accuracy by 20%.
- **BigBasket**, Bangalore, India | **Software Engineer - Data**   *Jan 2019 – Aug 2021*
  - Managed end-to-end projects, optimizing Docker, Kubernetes, and Helm for **production** releases, increasing project efficiency by 30%.
  - Implemented **real-time data processing** solutions, reducing data latency by 25% and enabling quicker decision-making.
  - Spearheaded a 500% speed increase in **cron job** execution, saving 20+ hours per week and enhancing operational efficiency.

EDUCATION

- University of Rochester, NY, USA   *Aug 2022 – May 2023*
  Master of Science in Data Science, GPA: 3.7/4.0
- NIIT University, India   *Aug 2015 – Jul 2019*
  Bachelor of Science in Computer Science**, 1st Rank Holder, GPA: 3.9/4.0**

TECHNICAL SKILLS

- **Programming Languages**: Python, R, SQL, C/C++, Java

- **Database Systems**: MySQL, PostgreSQL, MongoDB, Elasticsearch
- **Big Data Tools**: Hadoop, MapReduce, Hive, Apache Spark, Pig
- **ETL & Infrastructure**: Databricks, Snowflake, Airflow, Kafka, Docker, Kubernetes
- **Cloud Platforms**: AWS, Azure (ADF, Synapse Analytics, Fabric, CoPilot)
- **Data Visualization**: Tableau, PowerBI (PowerApps, DAX), SSRS, Plotly, Matplotlib, Excel
- **Machine Learning/Deep Learning**: SciPy, Scikit-learn, TensorFlow, Keras, PyTorch
- **Statistical Modeling**: A/B Testing, GLMs, Clustering, Time Series Forecasting, Ensemble Models
- **Management & Monitoring Tools**: GitHub, JIRA, Grafana, Kibana, New Relic, Confluence, Datadog

LEADERSHIP SKILLS

- Managed and mentored a team of interns, fostering professional growth and driving successful project outcomes.
- Collaborated with cross-functional teams to deliver high-impact data solutions.

PROJECTS

- **Trauma Detection (Healthcare)**
  Improved patient trauma level classification accuracy to **90%** (vs. manual classification **72%**), achieving **<5% False Negative Rate (FNR)** and **25% False Positive Rate (FPR)**. Utilized **EDA**, **sampling**, and **Ensemble Models** (ML) to outperform baseline metrics. Conducted statistical analysis to identify demographic influences.
- **Spam Page Detection (Big Data)**
  Developed a **PageRank algorithm** to detect spam pages in search engines, leveraging the **MapReduce Framework** in **Hadoop (HDFS)** for parallel data processing at scale.
- **Crime Rate Prediction (Time Series)**
  Predict crime rates across US cities using data from **Twitter**, **demographics**, and **Google Searches** related to mental health. Achieved **MSE of ~0.04**, outperforming existing studies. Identified high-impact crime categories requiring increased awareness.
- **Group Chat Text Segmentation (NLP)**
  Applied **Hierarchical Bayesian Topic Modeling** to segment **Slack** chat data, enhancing decision auditing and responsibility allocation. Involved data cleaning, tokenization, and similarity calculation to identify key topics and their relevance.

CERTIFICATIONS

- **Microsoft Certified: Fabric Analytics Engineer Associate**
  Expertise in Microsoft Fabric Delta Lake, Pipelines, PowerBI, and Security.
- **Microsoft Learn Cloud Skills Challenge 2024**
  Specialized in **GenAI** using **Microsoft Azure AI services** (OpenAI, AI Search, Vision, etc.).