Deep Patel

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PROFESSIONAL SUMMARY

Results-driven Data Engineer with over 4 years of experience in developing, optimizing, and managing scalable data infrastructures across diverse industries. Specializes in leveraging cutting-edge technologies and various cloud services to deliver robust, efficient, and secure data solutions. Proficient in architecting high-performance data systems, implementing advanced data models and algorithms, and optimizing operational performance. Demonstrated expertise in major cloud platforms (AWS, Azure, Google Cloud) and big data technologies (Apache Spark, Kafka, Airflow). Adept at leading technology teams, ensuring data compliance, and collaborating cross-functionally to drive the development and optimization of scalable organizational solutions. Seeking to leverage extensive background and expertise in data engineering to contribute to innovative and impactful projects.

TECHNICALSKILLS

Programming Languages:	Python, SQL, Scala,
Python Libraries:	Pandas, NumPy, Scikit-Learn, TensorFlow, PySpark
ML Libraries:	Scikit-Learn, TensorFlow, PyTorch, Keras, XGBoost, LightGBM, CatBoost, H2O.ai
Databases:	MySQL, Oracle, PostgreSQL, MongoDB, Snowflake, Databricks
Data Visualization:	Tableau, PowerBI, MS Excel, Looker
Cloud Technologies:	AWS, Microsoft Azure, Google Cloud Platform, Cloud Data Warehousing, Serverless Technologies, Containerization and Orchestration
Tools & Technologies:	Big Data Technologies, ETL, Data Integration, Data Storage, Warehousing, Machine Learning Libraries, CI/CD and DevOps, API and Web Services

EDUCATION

University of Central Missouri, Kansas   Jan 2021-Dec 2023
Computer Science & Engineering

Gujarat Technological University - Ahmedabad, India   Jun 2017-Jun 2021
Bachelor of Engineering in Computer Engineering

WORK EXPERIENCE

Data Engineer   Jun 2023- Current
Apple Inc., Cupertino, CA

- Leveraged extensive experience with AWS, Azure, and Google Cloud to design and deploy scalable, secure, and cost-efficient cloud-native solutions, achieving a 30% reduction in operational costs.
- Optimized database and system operations through advanced tuning and innovative technology use, resulting in a marked increase in system performance.
- Successfully led technology teams through complex projects and continuous improvement initiatives, driving a 10% boost in team productivity.
- Architected robust data pipelines with Apache Spark, Kafka, and Airflow, building scalable, fault-tolerant ETLs. Improved data processing efficiency through optimized partitioning, columnar formats, and compression techniques.
- Developed complex PySpark data transformations, Window Functions, and UDFs to aggregate and join datasets. Enabled real-time processing via Structured Streaming, significantly increasing data throughput.
- Integrated HDFS, MapReduce, Hive, and HBase for processing large-scale structured and semi-structured data. Utilized Beam and Dataflow on Google Cloud for unified batch and stream processing, reducing processing time considerably.
- Engineered serverless ETLs on AWS Glue and Azure/GCP Dataflow. Created cloud data lakes adhering to security, governance, and cost best practices, leading to notable reductions in data storage costs.
- Designed optimal PostgreSQL schemas and enhanced SQL performance through indexing, query optimization, and materialized views, improving query response times.
- Collaborated with cross-functional data and engineering teams to translate business needs into technical solutions using Agile Scrum/Kanban methodologies. Delivered projects on time and within budget.
- Implemented stringent access controls, encryption, and anonymization techniques to enforce data compliance per GDPR, CCPA, PCI-DSS, and auditing standards, achieving full compliance in all audits.
- Documented data flows, architectures, and metadata to streamline onboarding and maintain transparency, significantly reducing onboarding time for new team members.

Data Engineer   **Dec 2019 – Dec 2022**
Riya Enterprise, Ahmedabad, India

- Delved into datasets to uncover insights and trends using SQL, Python, or R; crafted visually engaging dashboards and presentations with Tableau, Power BI, or Matplotlib, enhancing stakeholder data comprehension.
- Applied statistical techniques and machine learning for predictive modeling and pattern identification to solve business challenges, resulting in a 15% increase in forecast accuracy.
- Methodically cleansed and preprocessed raw data to ensure accuracy and consistency, handling missing values, outliers, and anomalies, achieving a high data accuracy rate.
- Generated comprehensive BI reports and ad-hoc analyses tailored to business needs; collaborated with stakeholders to deliver insightful analyses, driving informed decisions.
- Offered strategic, data-driven recommendations to optimize business processes, enhance performance, and mitigate risks; collaborated cross-functionally to implement data-driven strategies aligning with organizational objectives.

Core Qualifications

- **Strategic Data Systems Architect:** Expert in conceptualizing and implementing high-performance data architectures that enhance scalability, and reliability.
- **Advanced Analytical Engineering:** Proficient in developing complex data models and algorithms to facilitate deep analytics, and actionable insights.
- **Cloud Solutions Expertise:** Extensive experience with major cloud platforms, enabling the design and deployment of scalable, secure, and cost-efficient cloud-native solutions.
- **Operational Performance Optimization:** Demonstrated success in optimizing database and system operations through advanced tuning, and innovative use of technology.
- **Leadership in Technology Innovation:** Adept at leading technology teams through complex projects, and continuous improvement.