Disha Verma

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# SUMMARY

Data Engineering and Healthcare professional with over 10 years of experience and a background utilizing Python, SQL, Big Data technologies on Azure and AWS. Adept at managing end-to-end implementation of data lake, performing data science algorithms, data wrangling, data storage and data visualization. Relevant experience in cutting edge analytics and data science solutions.

# CERTIFICATIONS AND SKILLS

**Certifications:** Databricks Associate,Python Data Analysis, AWS Cloud Foundations, Azure Data Fundamentals, KNIME for Data Wranglers, SAFe Agile.

**Languages:** Python (Pandas, NumPy), SQL, R

**Machine Learning Frameworks:** TensorFlow, PyTorch, Scikit-learn, Linear Regression, Random Forest

**Cloud Computing:** Azure, AWS

**Big Data Skills:** Databricks, Delta Lake, Postgres SQL, Redshift, Kafka, Snowflake.

**Visualization and Reporting:** Tableau

# EXPERIENCE

## Tabore IT Info Tech, Chicago, Illinois

## Data Engineering Lead | January 2023 – Present

## Conducted risk assessment analysis for cancer patients by leveraging HCC coding and evaluating family history data related to lung, stomach, and breast cancers; extracted insights from physician notes to assess cost of care associated with identified risk levels.

## Designed and implemented a scalable data architecture to process and store semi-structured and unstructured HIPAA compliant healthcare data in Azure ADLS and Cosmos DB (Gremlin API).

* Implemented **ETL** processes in Azure to semi-structure data transformation, mounting of blob storage in **Databricks**, and ingestion of the **patient and drug data** for streamlined machine learning analysis, facilitating advanced insights and informed decision-making.
* Logged and tracked software feature changes in **Jira** and maintained comprehensive product documentation in **Confluence** to support cross-functional teams.
* Implemented role-based access controls (RBAC) and data masking in Snowflake to ensure compliance with **HIPAA** and organizational data governance policies.
* Utilized **Medallion architecture** to streamline data ingestion, cleaning, and organization in a data lake, enabling comprehensive analytics and reporting on drug shortages.
* Designed and implemented Force-Layout graph networks in Power BI to visualize complex entity relationships, enhancing client insights and decision-making.

## University of Illinois - Urbana Champaign, Illinois [Part-time]

**Full Stack AI Engineer | June 2022 – December 2022**

* Executed a comprehensive students data collection plan to create an **AI grader pipeline**.
* Designed and implemented an LLM chatbot for university faculty that extracts information from the university student portal using the web scraping library **BeautifulSoup**.
* Developed functionality to process student assignments from semi-structured to structured formats and grade them efficiently using a vector store database powered by the **FAISS** library
* Created a repository on **GitHub for CI/CD** implementation and integrated with **Azure Web Application** service to deploy **Node.js and Python (LLM based)** AI chatbots.

## Philips (Interoperability, HL7, FHIR, Epic EMR)

**Data Specialist | October 2016 – December 2021**

* Engineered **custom API endpoints** for secure access to HCC scoring data and risk assessments, streamlining cross-team data accessibility and automation.
* Validated REST API payloads against FHIR standards, ensuring interoperability across healthcare applications and compliance with industry frameworks.
* Created **Azure Data Factory (ADF)** pipeline that acted as a transformation tool to **perform data curation and data transformations** of large and complex datasets.
* Optimized real-time data flow by leveraging **Kafka** for high-throughput data streaming, enabling seamless system integration.
* Created **Tableau reports and dashboards** on the gold data from the consumption layer, to provide assessment of patients’ clinical outcomes over the course of time.
* Developed and implemented integration solutions for medical devices and other EHR systems using the **Orion Rhapsody Integration Engine**, enabling seamless generation of customized patient reports.

## Accenture (Epic EMR)

**Interface Analyst | September 2015 – October 2016**

* + Upload data into build and production environments that involve updates to master records in healthcare systems.
  + I analyzed different data sources using **MS SQL and Python.**
  + Established batch connections **(SFTP/FTP)** between **hospital systems.**
  + Worked on troubleshooting issues with electronic medical record systems resulting in a 25% increase in efficiency.

## Deloitte (Epic EMR)

## Software Analyst | May 2013 – September 2015

* Development and maintenance of medical record source systems and identifying discrepancies by querying patient’s data on SQL platforms.
* Proficient in Epic EMR system implementation and optimization, including Bridges module workflow analysis and ADT, ORM and ORU interface analysis to improve clinical efficiency.

# EDUCATION

### University of Illinois Urbana-Champaign, Gies College of Business Champaign, Illinois

Master of Science in Data Analytics January 2022 - December 2022

### Rajiv Gandhi Technical University Bhopal, India

Bachelor of Electronics and Telecommunication July 2008 - September 2012