Hansal Shah

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EDUCATION

Cornell University   Ithaca, New York
Masters of Engineering in Computer Science: GPA 4.14/4.3   *August 2023 - May 2024*

Pandit Deendayal Energy University   Gujarat, India
Bachelors in Computer Science & Engineering: CGPA - 9.99/10   *June 2019 - May 2023*

RELEVANT EXPERIENCES

Reunion | *Data Science Intern*   December 2022 - June 2023
- Managed data processing enhancements for real estate legal sales, handling complex JSONs and legal PDFs.
- Collaborated with the team to create an **ELT Data Pipeline** on **Databricks** using **Python, DBT, Spark-SQL, and Elastic Search.**
- Improved quantitative analytics and standardized real estate data using technologies like **Delta Lakehouse Architecture** and **GPT**.

DEED Mobility Solutions | *SDE Intern*   May 2022 - August 2022
- Led the development of a full-stack web application using **ReactJS**, enhancing business operations and user interaction
- Implemented an IoT-based feature in the application for real-time EV tracking on Google Maps, improving customer experience and vehicle management.
- Collaborated on back-end development with **NodeJS**, **ExpressJS**, and **MongoDB**, contributing to a more efficient and scalable system.

OPEN SOURCE CONTRIBUTIONS

dbt-labs/dbt-core | *Contributor*   March 2023
- Resolved Issue #7138 in dbt snapshots, enabling tracking and management of non-chronological data insertions.
- Implemented and tested robust solutions for hard deletes in single-date data batches, significantly improving snapshot functionality for varied historical data.

PROJECTS

R2 Decide - Chatbot | Discord Bot   November 2023 - Present
- Led the development of a Retrieval-Augmented Generation system using LLAMA 2 for personalized, expert responses, incorporating query optimization and fact-checking to boost accuracy.
- Focused on integrating and testing system components, utilizing Hit-Rate, MRR, and nDCG metrics, resulting in notable enhancements in query response precision and personalization.

README.md Generator | Tool / GitHub   March 2022 - April 2022
- Developed a user-friendly React application that automates the creation of README files for project repositories, enhancing the documentation process for developers.
- Implemented real-time markdown rendering, allowing users to instantly view and download the formatted output for their projects.

SKILLS

Programming Languages:
[Python | SQL | Scala | JavaScript] → *Advanced Proficiency*
[C/C++ | Java | R | Cypher] → *Intermediate Proficiency*

Tools/ Databases:
[Git/GitHub | VS Code | Databricks | DBT | Microsoft Azure | MongoDB | PostgreSQL] → *Advanced Proficiency*
[MySQL Workbench | Spark | Hadoop] → *Intermediate Proficiency*