

# Nikhil Mulaguru

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## EDUCATION

**Illinois Institute of Technology, Chicago, USA**  
Masters in Computer Science

January 2023 – December 2024  
CGPA: 3.66/4.0

**CVR College of Engineering, Telangana, India**  
Bachelor of Technology in Mechanical Engineering

August 2017 – JULY 2021  
CGPA: 8.3/10

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## WORK EXPERIENCE

### Programmer Analyst

#### Cognizant Technology Solutions

October 2021 – December 2022

Role: Power BI Analyst

- Proficiently integrated data from diverse sources into cloud-based data storage solutions while designing and implementing ETL processes to cleanse, transform, and structure the data for analysis in Power BI.
- Leveraged Power BI's capabilities to create data models using DAX and developed interactive and insightful dashboards and reports to enable data-driven decision-making.
- Designed scalable and cost-effective data architecture solutions on GCP cloud platform, ensuring efficient data storage, retrieval, and processing.
- Established automated data extraction, transformation, and loading workflows, optimizing data pipelines for performance and reliability.
- Implemented real-time data streaming pipelines using Apache Kafka for immediate data analysis and visualization.
- Continuously improved query and report performance by 30 percent with use of fine-tuning data models, optimizing SQL queries, and enhancing report design to provide fast and efficient access to data.

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## SKILLS:

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|--------------|-----------------|--------------------------------------|--------------|
| • Python     | • MS SQL Server | • Object Oriented Programming (OOPS) | • Windows    |
| • SQL        | • GCP           | • Data Structures & Algorithms       | • Linux      |
| • Power BI   | • MongoDB       | • C#                                 | • JavaScript |
| • JavaScript | • DBMS          |                                      |              |

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## PROJECTS:

### Real Estate Management Application- IIT Chicago

- Orchestrated the creation of the application's ER-model and skillfully translated it into a relational schema using SQL scripts within a PostgreSQL database.
- Spearheaded the development of vital features, including user registration, payment and address management, property search, and booking functionality, contributing to the successful establishment of a comprehensive real estate management application.

### Sentiment Analysis

- The objective of this project is to classify a sentence, whether it's a negative sentence or positive sentence by using the label 0 and 1 respectively. I used the Glove.100.6d embedding vector which not only reduces the training period but also increases the accuracy. I got a satisfactory accuracy of 96% in the training dataset.

### Extra- Curricular Activities:

- Published a paper on "Risk assessment and spread of COVID-19" in IET Book 'Smart Health Technologies for the COVID-19 Pandemic: Internet of medical things perspectives', IET, June 2022. ISBN: 9781839535185 .
- I served as the Strategy Lead for the CVR College of Engineering chapter of Google Developer Student Clubs, a flagship program by Google Developers.
- Completed 30 Days of Google Cloud Program challenge by Google Developers.