

# Mandar Mhatre

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## EDUCATION

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### Indiana University

Masters of Science in Data Science | GPA: 3.97/4.0

Bloomington, IN

Aug 2022 - May 2024

### University of Mumbai

Bachelors of Engineering in Computer Engineering

Mumbai, India

Jul 2017 - Jun 2021

## SKILLS

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**Programming Languages:** Python, R, SQL, C#, Shell scripting, DAX, Javascript, Cypher.

**Data Management:** SQL Server, MongoDB, Neo4j, SQLite, Snowflake, AWS S3, PostgreSQL, Azure Data lake, Pyspark.

**Tools:** Power BI, Tableau, Looker, Excel, Apache airflow, Azure Data Factory, DBT, Prefect, AWS EC2, Redshift, hadoop, Map Reduce, Kafka, Git, Docker, Jenkins, JIRA, Confluence, Visual Studio, Jupyter, Alteryx, Figma, Unity, Blender.

**Libraries:** Pandas, NumPy, Matplotlib, Plotly, Seaborn, Scikit-learn, Nltk, Spacy, Dplyr, TidyR, ggplot2, Caret.

## WORK EXPERIENCE

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### Data Analyst

Energy justice Lab

Bloomington, IN

Aug 2023 – Dec 2023

- Orchestrated and developed a geographic **dashboard** using **Dash** and **Plotly** to visualize nationwide utility service territories.
- Engineered robust **data models** using advanced **Python** and **Excel** techniques, including **VLOOKUP**, **XLOOKUP** and **pivot tables**, enforcing **data governance** and ensuring **compliance** with industry standards.
- Developed **data pipeline** using Python, facilitating seamless **data integration** and **transformation** across multiple sources, thereby optimizing data workflows and enhancing overall efficiency.
- Conducted meticulous **Git code reviews** to ensure high-quality code through systematic peer reviews and maintained stringent version control for data modeling scripts.

### Associate Instructor

Indiana University

Bloomington, IN

Aug 2023 – May 2024

- Guided over **60 students** in Unity development, providing instruction in **C#** scripting, material creation, and game design.
- Assisted students in integrating AI concepts into their projects and ensured adherence to best coding practices.

### Associate Software Engineer

GEP

Mumbai, India

Jun 2021 – Nov 2021

- Collaborated with the lead architect to design and implement an **ETL pipeline** that extracted data from **REST APIs**, transformed it to meet specific requirements, and loaded it into a **SQL server** improving **data accessibility by 40%**.
- Performed **query optimization** utilizing **material views** and **window functions** resulting in **20% performance boost**.
- Developed and optimized **stored procedures** to automate data processing and improve efficiency, resulting in a **30% reduction in processing time** and enhanced data accuracy.
- Worked in a **cross-functional team** using **JIRA**, **Confluence** and following **Agile/Scrum** methodologies to manage daily tasks.
- Used **CI/CD pipelines** using **Azure DevOps**, maintaining separate instances for development, QA, and production, reducing deployment times from hours to minutes and ensuring **100% success rate** for over **35 deployments**.

## UNIVERSITY PROJECTS

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### ER Patient Visit Dashboard

- Created an **interactive dashboard** using **Power BI** for patient management in hospital ERs using **EHR data**, used **DAX** to craft complex measures and metrics, providing actionable insights.
- Performed **data modeling** and implemented **Row-Level Security** to ensure industry **data governance** standards.

### Real Estate Analysis

- Developed an **ETL pipeline** with **Python** for **data extraction** and **transformation**, using **Amazon S3** for **staging** and storage to optimize data management and accessibility, reducing data retrieval times by 30%..
- Integrated **Snowflake** with **Snowpipe** for real-time data loading and seamless **data ingestion**, enhancing data pipeline efficiency and reducing latency in data availability by 25%.
- Created interactive **Power BI** dashboards to generate insightful visualizations and reports, incorporating **KPIs** to drive **informed decision-making**.
- Orchestrated** the entire **workflow** using **Apache Airflow**, designing and managing **Directed Acyclic Graphs (DAGs)**.

### Sales Analysis

- Designed and developed an **ELT pipeline** using **DBT (Data Build Tool)** for efficient data transformation, integrating it with **Snowflake** for scalable and high-performance data **warehousing**.
- Made the pipeline more robust by creating **macros** and **test scripts** in DBT to ensure data integrity and accuracy, reducing data errors by 20%.
- Implemented **Prefect** for workflow **orchestration**, automating and managing ETL processes to ensure robust and reliable data pipelines, enhancing data accuracy and process efficiency.
- Designed and created interactive dashboards in **Tableau**, utilizing the transformed data to provide actionable insights and visualizations that support strategic decision-making.