

Indupriya Bhaskar Basireddy

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EXPERIENCE

Graduate Research Assistant - Data Engineer The University of Texas at Arlington

June 2023 - May 2024
Arlington, TX

- Leveraged **Alteryx** for data cleansing, validation, and analysis on student data, resulting in a **40% improvement in data quality** and enabling insights that led to an increase in student retention rate.
- Developed interactive **Tableau dashboards** for student data analysis, facilitating a **20% reduction in decision-making** turnaround time for enrollment and **retention strategies**.

Data Engineer

January 2022 - July 2022

Concepo Engineering and Technologies Pvt Ltd

Pune, Maharashtra, India

- Spearheaded the design and implementation of highly scalable ETL pipelines utilizing **Python, Apache Spark, and AWS** services (**S3, Redshift, Glue**). This optimized data ingestion and transformation, resulting in **2x** faster data processing time.
- Designed and executed data models and schemas using **AWS Redshift** to support business intelligence and analytics requirements, resulting in a **30% improvement** in database query performance.
- Implemented **data profiling** techniques to identify and rectify inconsistencies in data sources, resulting in a **20% improvement** in data accuracy.

Application Development Associate Accenture

January 2021 - December 2021
Bangalore, Karnataka, India

- Streamlined insurance policy data migration by optimizing **SQL queries**, achieving a **25% reduction** in execution time. This accelerated data extraction, analysis, and manipulation for a smoother migration process.
- Established comprehensive data migration plans for insurance policies, including **profiling, mapping, and cleansing**. This resulted in a **30% improvement** in efficiency and accuracy, minimizing migration errors.
- Collaborated with business analysts and stakeholders in an **Agile environment** to define migration requirements and acceptance criteria, ensuring project alignment.

EDUCATION

Master of Science in Information Systems | Arlington, TX The University of Texas at Arlington

August 2022 - May 2024
GPA: 3.70/4.00

Bachelor of Engineering in Computer Engineering | Pune, India Savitribai Phule Pune University

August 2016 - May 2020
GPA: 7.23/10.00

PROJECTS

Yelp Data Insights with Azure Data Engineering | TX, USA

- Designed and developed data pipelines utilizing **Azure Data Factory** for orchestration and automation.
- Employed **Azure Databricks** for processing and transforming data using medallion architecture in **Azure Data Lake** with **PySpark**.
- Utilized **Azure Synapse Analytics** for **data warehousing** and serverless **SQL querying**.
- Created interactive and insightful data visualizations using **Power BI** connected to **Synapse Analytics**.

Fraud Detection for Online Payments | TX, USA

- Conducted comprehensive **exploratory data analysis (EDA)** on 38,900 transactional datasets to identify potential fraud indicators and patterns.
- Utilized **Machine Learning algorithms** to develop **predictive models** for detecting fraudulent transactions, contributing to the enhancement of fraud prevention strategies and financial security measures.

ACHIEVEMENTS

Generative AI Fundamentals

June 2024 - June 2026

Databricks Lakehouse Fundamentals

March 2024 - March 2025

AWS Certified Cloud Practitioner

July 2023 - July 2026

Vice-President, Data Science Club-University of Texas at Arlington

April 2023 - May 2024

SKILLS

Languages: Python, R, Java, Scala, SQL, Bash, T-SQL

Database Management: PostgreSQL, MongoDB, HBase, MS SQL Server, Cosmos DB, Amazon DynamoDB, RDS

Data Warehousing: AWS Redshift, Snowflake, Google BigQuery, Azure Synapse Analytics

Big Data Technologies: Apache Hadoop, Apache Kafka, Apache Spark, Amazon EMR

ETL/Data Integration Tools: AWS Glue, Apache NiFi, Talend, Informatica, Azure Data Factory

Other Tools: Linux/Unix, Docker, Kubernetes, Tableau, Power BI, Git, GitHub, Terraform, Jira, Microsoft Office Suite, Alteryx