

# Karan Mudaliar

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Available: Jan 2024 - June 2024

## EDUCATION

**Northeastern University**, Boston, MA January 2023  
**Khoury College of Computer Sciences** Expected December 2024  
2024 Candidate for Master of Science in Data Science GPA: 4.0/4.0  
Related Courses: Supervised Machine Learning, Algorithms, Data Processing and Data Management

**Vellore Institute of Technology**, Vellore, India May 2021  
Bachelor of Technology in Computer Science and Engineering, GPA: 8.51/10.0  
Related Courses: Database Design and Management, Object Oriented Design, Java, Statistics, Linear Algebra

## TECHNICAL SKILLS

Programming Languages : R, Python, SQL  
Tools and Technologies : Airflow, GitHub, pysql, databricks, airflow, astronomer, postgres, S3, EC2, Tableau  
Frameworks : Pandas, Tensorflow, pyspark  
Certifications : Google Data analytics, Apache Airflow Certified, Hackerrank SQL Silver Badge

## PROFESSIONAL EXPERIENCE

**Conde Nast**, Chennai, Tamil Nadu June 2021 - July 2022  
Associate Software Engineer, Data Engineering

- Designed, implemented, and optimized data pipelines for seamless integration with leading vendors such as Google Analytics and Spotify, ensuring efficient data ingestion processes using S3, SQL, python, pyspark
- Revamped and customized ETL pipelines to align with evolving business requirements, resulting in greater data processing efficiency, processing upto 0.3 million records in 10 mins
- Led cross-functional collaboration between Data Engineering, Platform, DevOps, and QA teams, overseeing a 4-member effort to develop, deploy, and test production-ready data validation framework
- Achieved a 80% reduction in data quality check time, with minimal compute overhead, and ensuring enhanced data reliability

**Conde Nast**, Chennai, Tamil Nadu February 2021 - May 2021  
Data Engineer Intern

- Conducted and prototyped a Proof of Concept (POC) for an automated data quality and validation framework, reducing upto 40 % of human hours of data quality checks

**Capgemini**, Bangalore, Karnataka April 2019 - July 2019  
Data Analyst Intern

- Generated performance reports for diverse portfolio managers, identifying 3 underperforming accounts through analysis, and offered valuable insights for enhanced decision-making and optimization
- Performed performance analysis for portfolios, examining data from the past two years' quarters, and identified underperforming projects, providing reasons for performance using Tableau dashboards

## ACADEMIC PROJECTS

**Analysis of the failure of Silicon Valley bank**, Northeastern University DS 5110 March 2023 - April 2023

- Leveraged EDA and advanced visualization techniques, using 8 different predictor variables, to unveil SVB's risky growth and deposit trends, revealing poor decisionmaking and risk management strategies
- Predicted First Republic Bank's downfall by closely monitoring key metrics, including high investment in municipal securities, validating the predictive power of the assessment formulated for SVB

**Boston Housing Tracker**, Northeastern University CS5800r July 2023 - August 2023

- Designed and Built a comprehensive solution to monitor Boston housing trends, integrating Databricks Delta, Microsoft Azure, and Apache Airflow, monitoring around 5000 listings and trends in real time