

# Anuraag Macha

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[Website](#) | [LinkedIn](#) | [GitHub](#)

## EXPERIENCE

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### Analytics Engineer

Northeastern University | August 2023 – present

- Introducing and operationalizing dbt Cloud to modernize data transformation processes, enhancing pipeline maintainability, version control, and team collaboration.
- Configuring Snowflake as the central data warehouse to support dbt Cloud integration and enable scalable, source-aligned analytics workflows.
- Conducting ad-hoc exploratory data analysis and statistical modeling with Python for data wrangling, automation, and scripting custom solutions to aid analytical processes.
- Collaborating with data engineers and data scientists to refine data pipeline workflows and enhance data quality for downstream analytics.
- Orchestrating workflow automation to resolve inconsistencies in upstream data pipelines, ensuring clean, analysis-ready datasets.
- Implementing key business metrics and dashboards in Tableau enabling leadership to track performance effectively.
- Managing the scheduling and execution of critical data workflows, ensuring operational excellence.

### Lead Data Analyst

Gray Decision Intelligence | January 2022 – May 2023

- Designed and developed custom analytics applications for clients, focusing on financial modeling and program economics.
- Leveraged SQL and Qlik to integrate big data sources, perform advanced calculations, and generate key insights.
- Worked closely with clients by attending working session calls, delivering demo presentations to familiarize the clients with the system, and facilitating small or full-group sessions
- Led cross-functional collaborations with stakeholders to translate business challenges into actionable data-driven solutions.
- Performed predictive modeling and trend analysis to enhance the company's proprietary database using Qlik AutoML.

### Actuarial Intern – Pension Consultation

Willis Towers Watson | May 2021 – August 2021

- Performing annual pension (qualified and non-qualified) and post-retirement medical valuations for a variety of clients
- Assisting with completion of plan reporting and filing requirements
- Performing plan administrative tasks such as completing benefit calculations, reviewing plan documents and SPDs, and producing benefit statements
- Analyzing de-risking options for defined benefit plans (bulk lump sums, retiree annuity purchases, plan terminations)

### Data Automation Intern

Kothari & Co. | May 2019 – August 2019

- Built SQL-based data validation scripts to ensure data integrity and accuracy in analytical reports.
- Developed automation tools using Python (NumPy, Pandas) to improve data pipeline efficiency.
- Applied feature selection and hyperparameter tuning to improve forecasting accuracy.

## EDUCATION

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### Northeastern University

Master of Science, Data Analytics

Graduation: June 2025 | GPA: 3.926

### Purdue University

Bachelor of Science, Actuarial Science, Applied Statistics

Graduation: May 2022 | GPA: 3.423

## PROJECTS

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### Fantasy Football Analytics

Built an end-to-end pipeline to transform, analyze, and visualize NFL fantasy football data for player performance insights. Read more on [Medium](#).

- Snowflake, dbt Cloud, Power BI, Python, VS Code, GitHub, MiniConda

### Capstone Project

Built machine learning models to forecast capital project costs and optimize budget planning for DCAMM (Division of Capital Asset Management and Maintenance), improving financial accuracy for large-scale public infrastructure initiatives.

- Python (XGBoost, Neural Networks), Power BI

### Personal Portfolio Website

Designed and deployed a responsive personal website as a showcase of data projects and technical skills with custom routing, smooth navigation, and animated UI.

- React, Next.js, Tailwind CSS, Framer Motion, GitHub, Vercel, VS Code

## CERTIFICATIONS

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Microsoft Certified: Azure Fundamentals

- ID: D4906FBD6C5C41C7

Databricks Certified: Data Engineer Professional

- ID: xx

## SKILLS

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### Languages

Python, R, SQL, Java Script, C

### Data Engineering

dbt, Snowflake, PostgreSQL, Qlik, Alteryx, Spark  
Databricks, Data Lake, MLflow

### Data Visualizations

Tableau, Power BI, Qlik Sense

### Environments

Microsoft Office Suite, GitHub, Azure, Databricks,  
Linux/ Unix, MySQL/ MS SQL