

Ayush Rajshekhar Patil

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Education

Northeastern University

Master of Science in Information Systems

Coursework: Data Science Engineering Methods and Tools, Program Structure and Algorithms

Boston, MA

Expected June 2027

RNS Institute of Technology

Bachelor of Engineering, Computer Science

Coursework: Artificial Intelligence and Machine Learning, Big Data Analytics, Statistical Modeling

Bangalore, India

June 2023

Technical skills

Languages: Python, SQL, C++

Data Engineering: ETL/ELT workflows, data ingestion pipelines, data modeling, schema design, data validation

Data Platforms & Analytics: Large-scale SQL analysis, pattern analysis, metrics design, analytical reporting

AI & Machine Learning: Applied machine learning pipelines, model evaluation, Retrieval-Augmented Generation

Cloud & Infrastructure: AWS (S3, Redshift), Docker, Linux, CI/CD pipelines

Cloud & Tools: AWS (S3, Redshift), Docker, Linux, CI/CD

Core Strengths: Data automation, metadata awareness, documentation of data flows, cross-functional collaboration

Work Experience

Chainwise CPA

Data Science & Data Engineering Intern

Boston, MA

Aug 2025 - Dec 2025

- Developed and maintained automated, scalable ETL pipelines integrating multi-source operational data, improving data availability and reporting efficiency by 45%.
- Built and optimized standardized data models, validation rules, and quality checks to ensure consistent, reliable datasets for analytics and enterprise-wide consumption.
- Performed large-scale SQL analysis to uncover usage patterns, data inconsistencies, and opportunities for improving data accessibility across teams.
- Partnered with data producers and consumers, engineers, and business stakeholders to translate data requirements into production-ready, scalable data infrastructure.

Northeastern University

Research Assistant (Applied ML & Data Systems)

Boston, MA

Jan 2025 - April 2025

- Built scalable Python-based data processing pipelines for noisy, semi-structured datasets, reducing processing runtime by 40%.
- Analyzed patterns across 3,000+ records through exploratory data analysis and statistical methods to generate insights supporting downstream data systems.
- Documented data transformations, assumptions, and evaluation results to support reuse, transparency, and cross-team collaboration

Dhanyath Technologies

Software Engineering Intern

Bangalore, India

Dec 2023 - July 2024

- Developed backend data ingestion services processing over 5,000 daily events, ensuring reliable and consistent data flow for analytics and downstream systems.
- Optimized data processing logic supporting an ML-driven recommendation workflow, reducing end-to-end system response latency by 40%
- Collaborated closely with product and engineering teams to align data solutions with evolving requirements and platform constraints.

Academic Projects

Satellite Command Prompt Generator

June 2025 - July 2025

- Designed and implemented a Retrieval-Augmented Generation (RAG) system integrating sparse telemetry data sources to support enterprise-scale GenAI readiness.
- Built data preprocessing, vectorization, and retrieval pipelines to standardize heterogeneous inputs, enabling consistent downstream LLM workflows.
- Deployed containerized pipelines on AWS using Docker to support scalable, repeatable execution and experimentation.