Ayush Tyagi

+1 (825) 889-7690| ayushtyagi1337@gmail.com| [linkedin.com/in/ayushtyagi1337|](linkedin.com/in/ayushtyagi1337)
https://ayushtyagi.dev
Edmonton, Alberta

Profile

Data Engineer/analyst specializing in building end-to-end data solutions that drive business intelligence. Combining Computer Science & Engineering degree with advanced NAIT certifications in Business Intelligence & Data Engineering, I transform complex data into actionable insights using SQL, Python, Power BI, and cloud technologies. Proven ability to design ETL pipelines, develop analytics dashboards, and communicate technical findings to diverse stakeholders. Strong problem-solver who delivers results independently and collaboratively.

Education & Professional Development

Certificate in Business Intelligence & Data Engineering

Northern Alberta Institute of Technology (NAIT), Edmonton, AB | Completed December 2025
Coursework: Data Analytics, Machine Learning Fundamentals, Database Management, Cloud Computing, Statistical Analysis

Certificate in Full Stack Web Development & Professional Communication

Grant MacEwan University, Edmonton, AB | Completed December 2024
Coursework: Advanced C# & .NET Core, Entity Framework (Database Connectivity), RESTful Web Services, Angular, Azure DevOps, and Business Communication.

Bachelor of Technology, Computer Science & Engineering

DCRUST University, Haryana, India | August 2019 – July 2023
Coursework: Artificial Intelligence, Data Structures, Algorithms, Software Engineering, Database Systems

Technical Skills

Data Analytics & AI/ML: Machine learning fundamentals, deep learning concepts, statistical analysis, data modeling (conceptual, logical, physical), predictive analytics, automation
Data Visualization: Power BI (dashboards, reports, KPIs), Excel (Advanced), data storytelling, executive reporting
Programming & Development: Python (pandas, PySpark, scikit-learn basics), SQL, JavaScript, HTML, CSS, .NET fundamentals
Cloud & Platforms: Azure (Data Factory, SQL, ML), Databricks, cloud computing, robotic process automation concepts

Database Management: SQL Server, Azure SQL, database design, data governance, data quality assurance

Business Intelligence: ETL/ELT pipelines, analytics requirements gathering, workflow analysis, reporting automation

Development Tools: Git/GitHub, Visual Studio Code, agile methodologies, testing frameworks

Professional Experience

Web Developer Intern — SSDN Technologies, Gurugram, India

April 2023 – December 2023 | Full-Time (40 hrs/week)

- Analyzed business workflows to translate requirements into analytics and reporting solutions
- Researched and implemented data analysis techniques; developed Python/SQL automation scripts
- Supported front-end and back-end software development as part of project teams
- Provided technical expertise troubleshooting problems and performing complex diagnosis
- Worked with technical teams to analyze problem areas and identify improvement opportunities
- Maintained detailed documentation of systems, processes, and technical solutions
- Applied good judgment and decision-making skills when working independently

Crew Trainer — McDonald's, Namao, AB

February 2024 – Present | Part-Time (20-25 hrs/week)

- Analyze operational workflows and identify improvement opportunities
- Develop training procedures and documentation supporting decision-making
- Provide technical support, troubleshooting issues and implementing solutions
- Coordinate with team members to manage priorities in fast-paced environment

Technical Project

Alberta Affordability Data Platform — AI-Enabled Analytics Solution (GitHub)

Technologies: Azure Data Factory, Azure SQL, Databricks, Power BI, Python, Machine Learning

- Designed and implemented complete Medallion architecture (Bronze → Silver → Gold) analyzing economic affordability trends
- Engineered automated ETL pipelines integrating multiple government datasets (wages, inflation, rent, unemployment)
- Built custom Affordability Index using feature engineering and statistical analysis
- Developed interactive Power BI dashboards with correlation analysis and trend visualization
- Applied machine learning concepts for data classification and pattern recognition
- Created comprehensive technical documentation and architecture diagrams