

# Ayush Tyagi

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Edmonton, Alberta

## Profile

Recent graduate with bachelor's degree in computer science & engineering and certifications in Business Intelligence & Data Engineering from NAIT. Strong foundation in data analysis, machine learning fundamentals, software development, and systems analysis. Proven ability to translate business needs into analytics requirements, develop data visualizations using Power BI, and support front-end and back-end development. Experience with cloud platforms, database management, AI/ML concepts, and technical problem-solving. Strong analytical thinking with ability to work independently and collaboratively within multidisciplinary teams.

## 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

- Researched and implemented data analysis techniques to extract insights from government datasets
- Built predictive models and data transformations using Python and PySpark
- Determined data requirements and quality standards for analytics workflows
- Applied machine learning concepts to automate data classification and pattern recognition