

# Ashish

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## Summary

Associate **Data Engineer** experienced in designing and optimizing data extraction, transformation, and loading workflows using **Python, SQL and big data** platforms. Skilled at assembling and manipulating **large datasets**, building high-performance pipelines and interactive dashboards with **IBM Cognos and Python** libraries. Practical understanding of **Azure** architecture and cost optimization for **cloud-based data** solutions.

## Technical Skills

- **Technical Skills:** R, Rstudio, PostgreSQL, SQL, MongoDB, Python, C++, Java, JavaScript, HTML5, CSS, Data Querying Languages, Scripting Languages, Big Data Platforms, Data Engineering, ETL Ecosystem, Data Transformations, Software Engineering Principles
- **Machine Learning & NLP:** Supervised Learning, Unsupervised Learning, Reinforcement Learning, Language Models, Semantic Parsing, Natural Language Generation
- **Frameworks:** PyTorch, TensorFlow
- **Data Visualization:** Matplotlib, Seaborn, Data Storytelling
- **Data Science & Analysis:** Data Science, Quantitative Analysis, Statistical Inference, Causal Inference, Classification Methods
- **Business Intelligence:** Business Intelligence, IBM Cognos Analytics

## Education & Certifications

Cal State University East Bay, Hayward | *Master's, Statistics (Data Science Concentration)* (GPA: 3.6) Sep 2024 - Jun 2026

Fleming College, Peterborough | *Post-Grad Diploma, Wireless Information Networking* (GPA: 3.6) Sep 2017 - Jun 2019

Punjab Technical University, India | *B.Tech., Electronics & Communication Engineering* (GPA: 3.0) Aug 2012 - Jun 2016

## Work Experience

NPower Canada | *Junior Data Analyst Intern* Jan 2024 - Apr 2024

- Demonstrated strong data engineering skills and **ETL** ecosystem expertise through **Excel** and advanced **Python** libraries (**Pandas, NumPy**), aligning with proficiency in **data querying and scripting** languages and handling **large-scale datasets** using **big data** platforms.
- Executed a capstone project involving comprehensive **data collection, data transformations, exploratory analysis, hypothesis testing and statistical inference**, incorporating forecasting and causal inference techniques to generate actionable insights and support business decision-making.
- Built interactive dashboards using **IBM Cognos Analytics and Excel**, while composing **SQL** queries in **Jupyter Notebook** to monitor success metrics, drive strategic, data-informed decisions and enhance data storytelling and business intelligence.
- Acquired in-depth understanding of cloud computing concepts and **Azure** architecture, applying software engineering principles to manage **Azure** spending and implement best practices to minimize costs.

Nordia Inc | *IT support Analyst* Mar 2022 - Sep 2023

- Provided **Level 1/2 IT support** for hardware, software, OS, and network issues across Windows/macOS, resolving tickets within **SLA using ServiceNow/Jira-style** systems
- Managed **user access and systems** (Active Directory, Microsoft 365), performed device setup, troubleshooting, and supported onboarding/offboarding

Nordia Inc. | *Technical Support Representative* Jan 2020 - Feb 2022

- Enhanced **Layer 2 troubleshooting** procedures, optimizing SNR on Copper to ensure seamless connectivity and improved service quality.
- Conducted comprehensive fiber attenuation loss assessments from Central office to client locations, leading to improved network performance and reduced downtime.
- **Advanced troubleshooting** methodologies for residential gateways, collaborating with technical teams to resolve complex issues efficiently.

Information Point Society | *IT Faculty* Jul 2016 - Jul 2017

- Equipped students with proficiency in programming languages such as **Java, Python, and C++**.
- Revamped course modules to integrate real-world applications, ensuring students gained a practical understanding of programming concepts and familiarity with industry-standard tools.
- Provided tailored mentorship, guiding students on utilizing tools like **Git, SQL, and IDEs** effectively.

## Projects

**Data Analysis Project: Hypothesis Testing** | <https://github.com/ashishfreaksout/Data-Analysis-project>

- Conducted a comprehensive **data analysis** project utilizing **R and R Markdown**, focusing on **hypothesis testing** to derive insights from data.
- Performed **data exploration and statistical analysis** to identify trends and patterns.
- Documented findings and methodologies in a well-structured **R Markdown** report.

**IBM Data Analyst Capstone Projects** | [https://github.com/ashishfreaksout1/Final\\_assignment](https://github.com/ashishfreaksout1/Final_assignment) | **IBM**

- Conducted a **comprehensive analysis** of programming language and database trends using data from the 2019 **Stack Overflow Developer Survey**.
- Utilized the **yfinance** library to extract stock data for Tesla and GameStop, effectively creating comprehensive financial datasets for analysis.
- Conducted **data analysis** on a comprehensive housing **dataset** from King County using **pandas and seaborn** to predict market prices based on key features including square footage and number of bedrooms.

**U.S. Nonprofit Funding Concentration & Segmentation Study** | [https://github.com/ashishfreaksout/volunteer\\_mvp](https://github.com/ashishfreaksout/volunteer_mvp)

- Conducted end-to-end exploratory and advanced **analytics** on large-scale IRS nonprofit (**EO3**) **data**, uncovering sectoral, geographic, and funding concentration patterns using **inequality metrics and clustering**.
- Built a phased analytics pipeline (EDA → inequality analysis → segmentation) using **Python (pandas, NumPy, scikit-learn, matplotlib)** and produced Tableau-ready datasets and executive-level summaries.