# Navkaran Singh

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Driven Data Analyst with 4 years of expertise in utilizing Python, SQL, & BI tools to accelerate business growth

## EXPERIENCE

**WINDO**                                                                                                                                             Mtl, QC
**AI Intern |** *Python, TypeScript, Node.js, Xero API*                                                                       Jan 2025 - July 2025
- **Programmed ESP32 firmware** to read 4–20 mA liquid-level sensors and filter vibration, improving signal reliability for downstream analytics. (ESP32, signal filtering)
- **Built a TypeScript backend integrating Xero** (OAuth2 + webhooks) and a cost-estimation microservice to automate quote→invoice workflows and shorten quote turnaround. (Node.js, Xero)

**REALITY LABS**                                                                                                                              New York, US
**Generative AI Intern**| *Python, Vertex AI, Chroma dB, Streamlit*                                                        April 2024 – Aug 2024
- **Built a RAG quiz-generation pipeline** that auto-extracted questions from PDFs with provenance, improving semantic relevance ~25%. (RAG, retrieval)
- **Engineered ingestion (OCR fallback)**, batch embeddings, and a Streamlit editor; added QA scoring and CI tests to cut low-quality outputs ~20%. (OCR, CI)

**L'ORIGINAL**                                                                                                                                        Mtl, QC
**Data Analytics Intern** | *Python, Tableau, MS Excel*                                                                      Jan 2023 – July 2023
- Engineered distributed caching and async pipelines for art metadata queries, cutting median response time and reducing downtime.
- Co-developed a hybrid recommender (collab + content) tuned via offline eval and A/B tests to lift personalization and click-through.

**SEW.ai**                                                                                                                                           Delhi, India
**Data Analytics Intern** | *Power BI, MySQL, Figma, Agile*                                                              July 2021 - July 2022
- Built interactive Power BI dashboards to surface KPIs and improve decision-making for stakeholders. (Power BI, SQL)
- Designed 15+ Figma mockups and integrated chatbots to client workflows, cutting response time ~50%. (Figma, chatbots)

## SKILLS

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|---|---|
| **Business** | : Business Analytics, Data Visualization, Statistical Analysis, Predictive Modeling, A/B Testing, Documentation, Agile |
| **Technology** | : Python [NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn], SQL, AWS, Azure, Hadoop, Java, HTML |
| **Tools** | : Tableau, Power BI, MS Office [Excel, PowerPoint], SQL Server, Oracle SQL Developer, Splunk, JIRA, Confluence |
| **Interpersonal** | : Communication, Analytical & Problem-Solving, Time Management, Self-Starter, Collaboration, Detail-Oriented |
| **Certifications** | : Data Analyst with Python, Power BI Fundamentals, Salesforce AI Associate, Azure Fundamentals, PSM I (Scrum) |

## PROJECTS

**Airbnb NYC Price Prediction** | *Python, Machine Learning, Tableau*
- Engineered a predictive pricing model with a 99% $R^2$ score for Random Forest & XGBoost regressors through hyperparameter tuning & feature engineering, analyzing occupancy rates, availability ratio, host portfolio, & room type segmentation
- Designed a Tableau dashboard to extract pricing optimization insights, visualizing top revenue neighborhoods & booking hotspots

**Customer Retention Initiative**| *Python, SQL, Power BI, A/B testing*
- Performed cohort and churn analyses to identify at-risk segments and root causes, turning raw metrics into prioritized retention opportunities. (Python, SQL, cohort analysis)
- Implemented targeted email/onboarding experiments and dashboarded results in Power BI to track impact and guide product changes, improving retention & long-term engagement. (A/B testing, Power BI)

## EDUCATION

**Concordia University** – **MS** in **Artificial Intelligence**                                           Montréal, QC | Aug 2023 - May 2025
*Data Management, Data Analytics, Business Intelligence, Data Warehousing, Data Science, AI, Transformers*                    *4.0/4.0*

**Punjab Engineering College** – **B.Tech** in **Computer Science & Engineering**            Chandigarh, India | Aug 2017 - May 2021
*Database Management Systems, Big Data Analytics, Artificial Intelligence, Data Structures & Algorithms*                       *3.5/4.0*