

Harshpreet Singh

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Technical Skills

Languages: Python, SQL, R, DAX, Power Query, JavaScript, C++, Java, C#

Cloud & GenAI: AWS (cloud fundamentals: S3, EC2, Lambda, IAM), generative AI & LLM concepts, RAG basics

Data & BI Tools: Power BI, PostgreSQL, OracleDB, Jupyter Notebook, RStudio, Excel, HubSpot

Libraries: Pandas, NumPy, Scikit-learn, Seaborn, Plotly, SciPy, Matplotlib, ggplot2, tidyverse

Backend & Web: Node.js, Express, REST APIs, HTML, CSS

DevOps & Version Control: Git, GitHub, Docker, CI/CD pipelines, Jira, Confluence

Work Experience

Apera AI | *Data and Business Analyst Co-op*

Jan 2026 - Apr 2026

- Audited CRM data to map end-to-end data flows, identifying duplication and reporting gaps and building repeatable cleansing and ETL-style standardization rules that improved data reliability.
- Performed EDA on complex backend JSON data with the engineering team, transforming raw technical structures into clear, stakeholder-friendly visualizations and a self-service web interface.
- Built multi-team workflows in HubSpot to streamline cross-functional data handoffs across Customer Success, Engineering, Business Development, Marketing and Revenue teams.
- Strengthened cross-team KPI tracking by defining and standardizing key metrics, delivering reliable Power BI and HubSpot dashboards with automated refresh for self-service analytics.

Technical Projects

Local RAG Study Assistant | *Python, FastAPI, ChromaDB, Ollama, sentence-transformers*

Aug 2026

- Built a retrieval-augmented generation (RAG) chatbot that answers questions over lecture-slide PDFs, running fully locally with no external API calls so document data never leaves the machine.
- Implemented the full RAG pipeline: per-slide PDF chunking, sentence-transformers embeddings, a persistent ChromaDB vector store, semantic retrieval, and local LLM inference via Ollama (Llama 3.1).
- Served a streaming chat interface and API from a single FastAPI process, with each answer citing the source deck and slide, and incremental re-ingestion so only new or changed PDFs are re-embedded.

ReVault - Game Preservation Database | *Oracle SQL, Node.js, Express, JavaScript*

Jul 2026 - Aug 2026

- Designed and normalized a 26-table relational database (to BCNF) in Oracle SQL for a retro game preservation archive, modeling acquisition, condition history, valuation and restoration workflows with weak entities and ISA hierarchies.
- Built a full-stack web app (Node.js, Express, OracleDB, HTML/CSS/JS) exposing INSERT/UPDATE/DELETE, join, aggregation and division queries through an interactive interface, using bind variables to prevent SQL injection.

FC25 Hidden Gems Player Analysis | *Python, Power BI, Power Query, DAX*

Oct 2025

- Analyzed 17,000+ player records across 58 attributes in Python and Power BI, applying feature engineering and position-specific weighted value indices to surface 1,577 undervalued players performing 8-21% above their assigned ratings.
- Built an interactive Power BI dashboard with dynamic filtering by position, league, age and performance across 50+ leagues and 160+ nations.

Cyclist Bike-Share Dashboard and Analysis | *SQL, Power BI, Power Query, DAX*

Sep 2025 - Oct 2025

- Analyzed 8 months of bike-share data in SQL using cohort and segmentation analysis to compare casual vs. member ridership, projecting 15-25% potential membership growth from the casual base.
- Developed 4 data-driven marketing recommendations with projected impact, including high-traffic station campaigns (15-20% lift) and peak-hour commuter incentives (25% lift).

Certifications and Professional Development

AWS: [Cloud Practitioner Essentials](#) (AWS Skill Builder); AWS Certified Cloud Practitioner (CLF-C02) - In Progress

Google Cloud: Introduction to Generative AI

Coursera: [Google Data Analytics](#)

DataCamp: [Associate Data Analyst](#); [Data Analyst in Power BI](#); [Associate Data Analyst in SQL](#)

LeetCode: [SQL 50 badge](#)

Education

The University of British Columbia | *B.Sc. Mathematics*

Sep 2022 - May 2027

Outstanding International Student (OIS) Award