**Sahilpreet Chhina**

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**EDUCATION**

**University of Western Ontario, BSc in Computer Science**, GPA: 3.5 / 4.0Expected Graduation,*May 2027*

**Concentrations:** Honours Specialization in Computer Science, Software Engineering Minor.

**Relevant Coursework:** Data Structures & Algorithms, Applied Logic for Computer Science, Systems Programming, Computer Organization, Machine Learning, Object-Oriented Programming, Statistics.

**TECHNICAL SKILLS**

**Programming Languages:**  C++, Python, Java, Swift, Go, JavaScript, TypeScript, HTML/CSS, SQL, Bash

**Frameworks & Tools:** React.js, Node.js, Flask, Pandas, NumPy, Git, Docker, PyCharm, VSCode, Figma, AWS, Azure

**WORK EXPERIENCES**

**Singh Capital Partners Toronto, ON**

*Data Analyst Intern*  *January 2024 – March 2024*

* Queried and processed financial datasets exceeding 100,000+ records using SQL, improving data retrieval time by 30%.
* Applied real-world data management techniques to organize, clean, and analyze financial datasets for better decision-making.
* Generated 10+ actionable insights using Tableau and Python that influenced $100K+ in reallocated investments.

**PROJECTS**

***NBA Player Prop Betting Algorithm*** **Brampton, ON**

*Personal Project April 2025 - May 2025*

* Designed and deployed a data-driven NBA prop betting engine using FanDuel odds and NBA Stats API to evaluate over/under picks with weighted statistical models.
* Integrated AWS services including **Lambda**, **DynamoDB**, and **Amazon Bedrock** to auto-run daily predictions, log bets, and generate AI-driven natural language justifications for top picks.
* Built a modern dashboard using **React.js** and **Tailwind CSS**, hosted on **GitHub Pages**, to display daily picks with real-time justifications and expected value metrics.
* Applied machine learning concepts (feature weighting, data cleaning, trend detection) to improve prediction logic, resulting in a 67% hit rate over 3 months (90+ bets tracked), generating $6,000 in total profit and a 22% ROI.

**Spotify Listening Trends Dashboard****Brampton, ON**

*Personal Project February 2025 - March 2025*

* Built a web app inspired by Spotify Wrapped that visualizes year-round streaming data using the Spotify Web API and Plotly, handling 1,000+ API calls across 50+ users.
* Enabled secure login via OAuth and displayed personalized insights through interactive graphs and a clean UI.
* Implemented AI-powered music recommendations using cosine similarity, achieving 92% accuracy based on user listening patterns and track features.

**Twitter Data Analysis**  **London, ON**  
*Personal* *Project November 2024 - January 2025*

* Developed a Python-based algorithm to analyze a dataset of tweets, classifying tweets based on audience relevance. Integrated **Twitter API** to programmatically fetch tweet data for real-time and historical analysis.
* Utilized lists and object-oriented programming in Python to interpret and score tweet content, focusing on sentiment analysis, keywords, and user engagement patterns to assess the target audience for each tweet.
* Analyzed over 10,000 tweets across 5+ categories using NLP and sentiment scoring, improving relevance detection accuracy to 85%.

**ACTIVTIES AND LEADERSHIP**

**Western Developer Society London, ON**

*Developer**September 2023 – Present*

* Developed programming skills and broadened technical knowledge through active involvement, gaining practical experience and insights by attending various coding workshops and collaborating with peer developers.
* Collaborated with a team of 6+ developers on open-source projects; participated in 10+ workshops and hackathons.