Sahilpreet Chhina

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EDUCATION

University of Western Ontario, BSc in Computer Science, GPA: 3.5 / 4.0 Expected 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, Git, Kubernetes, Ansible, Terraform, PostgreSQL, DynamoDB
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.