

# Saumi Rahnmay

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## Skills

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- Programming (Python, R)
- Data Visualization (Python, R, Tableau)
- Critical Thinking
- Optimization
- Machine Learning
- DB Querying (Postgres, MongoDB)
- Corpus Linguistics
- Leadership and Collaboration

## Experience

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**Customer Service Representative, Fraser Valley Real Estate Board** August 2024 – October 2024

- Supported data entry and client communication workflows.
- Developed custom desktop macros to circumvent software-specific workflow restrictions, reducing processing time by ~5 minutes per document.

**Research Assistant, Simon Fraser University** November 2022 – May 2024

- Supported academic research via digitization, organization, and analysis of historic economic data.
- 150+ pages of data digitized, analyzed and visualized.
- Data wrangling, EDA and visualization performed in R; OCR-scanning performed in Python.

**Volunteer Vice President, SFU Philosophy Student Union** June 2019 – 2021

- Executive member and event organizer for the Philosophy Student Union club at Simon Fraser University.
- Coordination of over 25 club meetings; 2 major club outings organized in tandem with Treasurer and President; and facilitation of 4 club referenda.

## Projects

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**BPE Tokenizer From Scratch** [Available on Website](#)

- Coding a Byte-Pair Encoding Tokenizer from scratch; only using numpy. Tokenization is the first step of any machine learning application involving natural language (e.g. LLMs).
- First entry in an ongoing series of 'from scratch' coding projects.

**Optimizing Gratuity** [Available on Website](#)

- When, and under which conditions do I get the best tips at my pizza delivery job? Modeling trends in customer tip behavior to infer when I should schedule myself to maximize my tips.
- Demonstrated a 106.16% increase in expected tips; demonstrated the effect of preset tip percentage options on expected tip. Inferential statistics performed with R.

**BC Housing: Endemic** [Available on Website](#)

- Social Data Analytics Capstone, presented at [HUBBUB 18](#). An inquiry and description of the BC Housing and Rental markets since the onset of the COVID-19 pandemic.
- Visualizations created with R.

## Education

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**University of British Columbia (UBC)** September 2025 – June 2026

- Master of Data Science, Computational Linguistics

**Google Business Intelligence Certificate** May 2024 – June 2024

**Simon Fraser University (SFU)** September 2018 – May 2023

- Bachelor of Arts (Honours with Distinction), Major in Philosophy, Minor in Social Data Analytics.