

## KRUTARTH GHUGE

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### EDUCATION

**TRENT UNIVERSITY – Bachelor of Science Honours Computer Science, Specialization in Data Analytics, Minor in Economics** Jan 2022 – Apr 2025

- Dean's Honour Roll Awardee (2021-2022, 2023-2024).
- GPA: 3.7
- Relevant Coursework: Data Structures and Algorithms; Data Mining; Database Management Systems; Modelling and Simulation; Artificial Intelligence; High Performance Computing; Risk Management and Insurance; Financial Economics.

### TECHNICAL SKILLS

**Programming Languages:** C#, Python, Java, C, R

**Web Development:** HTML5, CSS3, SASS, PHP, Node.js, React

**Database:** SQL, Microsoft SQL Server, Microsoft SharePoint

**Other Technologies:** Git/GitHub, Scrum & Agile Methodologies, Linux/Unix

**Certifications:** Google IT Support Professional Certificate, Canadian Investment Funds Course (IFIC), Microsoft Office Specialist – Word, PowerPoint, Excel

### WORK EXPERIENCE

#### Atria University

Bengaluru, IND

*Data Analyst Intern*

Jun 2024 – Jul 2024

- Conducted exploratory and statistical analysis of satellite datasets from Google Earth Engine to examine environmental indicators like NDVI, air quality (CH<sub>4</sub>, NO<sub>2</sub>), water quality, and land cover, spanning multiple regions.
- Developed automated geospatial tools to process and visualize data trends, enabling a 50% improvement in efficiency for identifying climate impacts and resource management opportunities.
- Presented actionable insights on precipitation, temperature, and greenhouse gas concentrations, directly supporting policymaking and research on sustainable environmental practices.

#### Cyber & Forensics Security Solutions

Peterborough, CAN

*Cyber Security & Ethical Hacking Intern (Remote)*

Apr 2024 – Apr 2024

- Explored Python's capabilities to demonstrate live data processing and analysis through web frameworks like Flask, integrating backend functionality with an interactive front-end interface.
- Designed and implemented hashing techniques, including SHA-256, to secure user data inputs, ensuring cybersecurity best practices in data handling.
- Developed custom scripts and leveraged online tools to analyze and decrypt hashed codes, enhancing data validation and encryption knowledge.

#### Trent University

Peterborough, CAN

*Student Lab Demonstrator*

Jan 2025 – Apr 2025

- Course(s): COIS 4400H (Data Mining)
- Prepare for, conduct, monitor, and evaluating lab work and/or problem-solving sessions

*Academic Assistant*

Sep 2024 – Apr 2025

- Course(s): MATH 1110H (Calculus I), COIS 2040H (Object Oriented Programming)
- Conducted workshops and assisted the Professor with grading students' assignments and examination papers.

*Student Marker*

Sep 2023 – Apr 2025

- Course(s): COIS 2430H (Web Development Part I), MATH 1005H (Applied Calculus), MATH 1110H (Calculus I), COIS 2520H (Professionalism and Ethics)
- Assisted Professor with grading students' assignments and examination papers.

#### Antardrishti Career Counselling Services and Psychometric Assessments

Mumbai, IND

*Website Developer Intern*

Nov 2020 – Oct 2021

- Designed and maintained a responsive, user-friendly website for Antardrishti, aligning with its career counseling goals and improving online engagement.
- Optimized website performance through SEO strategies, content updates, and bug fixes, increasing client inquiries and user satisfaction.

### PROJECTS

#### United States Medical Insurance Costs - Data Analysis, Python, MS Excel

- Description: Performed data analysis on the medical insurance costs dataset of the United States available from Codecademy, performing processes of mining, visualisation, analysis, and evaluation on the available dataset, and obtained key findings.

#### Online Bookshelves Web App – HTML, CSS, JavaScript, PHP

- Description: Created a working web app library for eBooks. Users can add, share, view and review eBooks added to the online library by themselves and other fellow friends (or even others).

#### Rock Paper Scissors Game - JavaScript

- Description: Created a working online mode of the simple rock-paper-scissors game (hosted on GitHub site).