

# SAGAR KALAUNI

Glen Carbon, IL | (618) 917 9128 | [analyst.sagar07@gmail.com](mailto:analyst.sagar07@gmail.com) | LinkedIn: [Sagar Kalauni](#) | portfolio: [Sagar](#)

## PROFILE

---

Detail-oriented and results-driven data analyst with over three years of experience in data analysis, supported by a strong foundation in data, statistics, and visualization. Skilled in analyzing complex datasets, uncovering key trends and insights, and presenting findings effectively to both technical and non-technical audiences. Proficient in Power BI, SQL, R, and Python, with a passion for leveraging data to drive meaningful business outcomes. Recognized as an SIUE Honor Student, Class of 2024, for academic excellence and dedication.

## SKILLS

---

**Technical Skills:** Power BI, SQL, R, Power query M language, DAX, Microsoft PowerPoint, Power apps, Microsoft Excel/Google Sheets, SharePoint, IBM Maximo, RStudio, Python, Tableau, Arena, Teams & Microsoft Word.

**Data Analysis Skills:** ETL (Extract, Transform, Load), Data Visualization, Machine Learning, Dashboarding, Web scraping, Statistics, Trend Analysis & Data-driven decision-making, credit analysis, Regression Analysis, Hypothesis Testing, Distributions, rare event analysis.

**Soft Skills:** Problem-solving, critical thinking, and attention to detail-*from a math background*; teamwork, time management, leadership, collaboration, communication, and creativity-*as a content creator*; adaptability, eagerness to learn, and thankfulness-*as an international student*.

## WORK EXPERIENCE

---

### SOUTHERN ILLINOIS UNIVERSITY EDWARDSVILLE, IL USA

Aug 2022 – Dec 2024

*Graduate Teaching Assistant.*

- Taught students how to calculate **credit card interest, minimum payments, and impact of credit utilization**, providing an understanding of how credit card debt affects creditworthiness and financial stability, key skills for assessing individual and business credit risk.
- Instructed students on **loan repayment structures**, including **student loans, mortgages, and auto loans**, focusing on calculating **loan terms, interest rates, and amortization schedules** to assess an applicant's financial capacity and risk profile when making lending decisions.
- Developed and delivered engaging lessons on consumer math, including **simple and compound interest, installment buying, and investing in stocks and bonds**, aligning closely with financial analysis principles.

### PRAIRIE STATE GENERATING COMPANY, IL USA

May 2024 – Aug 2024

*Business Data Analyst Intern – Analytics & Insights.*

- **Analyzed Completed and Pending Work Orders for 2024:** Utilized Power BI, DAX, and Excel to analyze discrepancies between planned and actual spending across work orders, achieving a 2 times improvement in budget efficiency.
- **Conducted ABC and Item Count Analysis:** Analyzed over 24,000 items in plant and mine inventory using Power BI, Excel and Python, driving improvements in quality and operational efficiency for a \$46.9 million, plant and mine warehouse inventory.
- **Developed Dashboards for Repairable Items and Shutdown Dates:** Created and implemented Dynamic dashboards in power BI that improved tracking efficiency by 99%, significantly enhancing the company's operational oversight.

**Content Analyst.**

- Conducted viewership trend analysis using R and Excel, and presented insights through Power BI and PowerPoint, contributing to recognition as a top-ranking online media in far-west Nepal.

**AWARDS AND HONORS**

- |   |      |
|---|------|
| • Greg and Mary Ann Budzban Scholarship for Data Analysis                   | 2024 |
| • Matthew Samsel Graduate Assistant Fellowship in Mathematics & Statistics. | 2024 |
| • Graduate Teaching Assistantship.  | 2022 |
| • Geographic Enhancement Opportunity (GEO) Award.                           | 2022 |

**EDUCATION**

SOUTHERN ILLINOIS UNIVERSITY – EDWARDSVILLE	Aug 2022 – Dec 2024
<i>Master of Science, Statistics &amp; Operations Research</i>	<i>Overall GPA: 3.917/4</i>
<i>Post-Baccalaureate Degree, Data Science</i>	

TRIBHUVAN UNIVERSITY – NEPAL	Aug 2016 – Jul 2020
<i>Bachelor of Science, Mathematics</i>	<i>GPA: 3.54/4</i>

**PROJECTS****Master's Thesis: Model and Algorithm based approach for Handling Imbalance Dataset.***Handling Rare Event Data with Finite Sample Correction and SMOTE, SIUE.*

- Designed and implemented model-based and data-based strategies to tackle class imbalance in datasets, incorporating bias correction in logistic regression for rare event (Imbalance) dataset.
- Simulated datasets in R and Python to validate and cross-check the accuracy of the developed modified logistic regression models, ensuring robust and reliable results.
- Achieved enhanced predictive accuracy by applying the improved model to real-world healthcare datasets, particularly excelling in breast cancer prediction scenarios.

**Oracle SQL: Madison Hospital Database***Oracle SQL for Business Analytics, SIUE*

- Utilized complex SQL queries to extract and analyze essential data from Madison Hospital's database. Developed comprehensive documentation and ensured data integrity, supporting data management solutions and enhancing business data quality.

**Machine Learning methodologies: Travel Insurance Data***Machine Learning and Classifications, SIUE.*

- Utilized diverse machine learning techniques to predict travel insurance purchases. Conducted feature selection, model optimization, trends & patterns analysis, and insights to drive data-driven decision-making and support business data management using R.

**CERTIFICATIONS**

- |   |      |
|---|------|
| • Microsoft Power BI Desktop for Business Intelligence: Maven Analytics | 2024 |
| • Mastering M language, Dax and Data Modeling: goodly                   | 2024 |
| • Google Data Analytics Professional Certificate: Coursera              | 2023 |
| • Python for Everybody Specialization: University of Michigan           | 2022 |