Satkar Karki

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PROFESSIONAL SUMMARY

Curious, focused, and always improving. I specialize in asking the right questions and building the systems to answer them. I connect data-driven thinking with business awareness and team-oriented execution.

EXPERIENCE

President & Founder | *USD Business Analytics Club, Vermillion, SD*   *(Mar 2025 – Present)*
- Founded the university's first analytics-focused student organization to promote applied learning and industry exposure, attracting 30+ members in the first semester of operation.
- Led a workshop on building an analytics project in Python from data cleaning to visualization demonstrating modeling best practices and helping 20+ students strengthen their portfolio.

Junior Financial Analyst | *Coyote Capital Management, Vermillion, SD*   *(Aug 2024 – Present)*
- Developed time-series forecasting models in R to evaluate healthcare equities, supporting buy recommendations that helped the sector team outperform the benchmark by 5% in a $4M student-managed portfolio.

Data Analyst | *Krinjal Foundation, Kathmandu, Nepal*   *(Mar 2020 – Nov 2023)*
- Analyzed international donation trends using SQL and shared insights through Tableau, helping the outreach team target top-contributing countries and boost campaign conversion rates by 20%.
- Resolved staff scheduling conflicts by designing an Excel Solver-based optimization model, enabling HR managers to generate conflict-free weekly rosters and save over 20 hours of admin time weekly.

SKILLS

- **Data Analysis & Visualization:** Python (pandas, PySpark), R, SAS, SQL, Power BI, Tableau
- **Analytics & Modeling:** Time-Series Forecasting, Optimization, ML, NLP, A/B Testing
- **Business Skills:** Data Storytelling, Leadership, Stakeholder Reporting, Cross-Functional Communication

EDUCATION

Master of Science in Business Analytics (STEM)   *(Jan 2024 – Dec 2025)*
University of South Dakota, Vermillion, SD
Bachelor in Business Administration   *(Jun 2016 – Jun 2020)*
Westcliff University, Irvine, CA

PROJECT WORKS

Canyon Ranch Reservation Analytics System | GitHub   *(Feb 2025 – May 2025)*
- Mapped business requirements and created an ER diagram to redesign the resort's fragmented CLI-based reservation system, creating a schema focused on bookings across lodging, spa, and wellness services.
- Applied dimensional modeling to build fact and dimension tables using SQL stored procedures, enabling 3+ departments to track reservation trends and reduce reporting overhead.

Egg Price Forecasting for Procurement Planning | Video Presentation | GitHub   *(Feb 2025 – Apr 2025)*
- Forecasted monthly egg prices using ARIMA in R, enabling a local bakery to adjust procurement timing and avoid a 15 – 20 % cost surge preserving pricing consistency during peak season.

NCAA Referee Analysis | IdeaFest 2025 | GitHub | Dashboard   *(Jan 2025 – Apr 2025)*
- Automated scraping of 5,900+ NCAA game records using Python, building a pre-processing pipeline that stored structured game-level data with each row representing a unique game ID for scalable analysis.
- Analyzed referee travel patterns and venue assignments to surface workload disparities, visualized through an interactive Shiny dashboard showcased at USD's flagship IdeaFest symposium.