

Mausham Bista

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Education

Bachelor of Science in Computer Science | Brigham Young University - Idaho |
Rexburg, Idaho

September 2022 - Present

- Relevant Coursework: Data Structures, Web Programming, Calculus, Introduction to Databases, Applied Calculus for Data Analysis, Technical teamwork
- Academic Projects: Designed and developed a gym website, created a digital Blackjack game and collaborated on a cybersecurity awareness campaign, utilized data visualization to identify the LED bulb lifespan model
- Received BYUI Grant (2022-2023, 2023-2024) for outstanding academic achievements

Skills

Languages:	Python, Django, C#, Java, R, Pandas, NumPy
Web Technologies:	HTML, CSS, JavaScript, React
Tools:	Git, Visual Studio, GitHub
Databases:	MySQL, PostgreSQL

Experience

Tutor | Brigham Young University-Idaho | Rexburg, Idaho

September 2023 - Present

- Tailored tutoring for **500+** students, resulting in a **30%** average improvement in students' math grades
- Improved problem-solving skills, leading to a **20%** increase in personal academic performance
- Created a supportive environment, boosting student confidence in complex **math concepts**

Data Analyst Intern | Data Research Council For Students | Kathmandu, Nepal

March 2021 - August 2021

- Analyzed large datasets using **Python, SQL, and R**, to provide valuable insights for strategic decision-making
- Produced **50+** impactful **data visualizations** in a team of 8, elevating the team's understanding of complex data patterns
- Spearheaded process optimization efforts, resulting in a 12% increase in project delivery efficiency through cross-functional collaboration

Projects

Spotify Data Pipeline (ETL)

- **Built an ETL pipeline** to extract, transform, and load Spotify playlist data into S3 using AWS Lambda, processing over **100+** JSON files
- Extracted and transformed album, song, and artist metadata, creating 3 clean datasets (CSV) and eliminating duplicates by 30%
- **Automated data workflows** by migrating processed files in S3, improving data management efficiency by 40%

Database Setup for E-commerce Insights

- Designed and implemented a data loading script using **Python, SQL Alchemy, and PostgreSQL** to streamline the import of 5 e-commerce datasets, enhancing data accessibility for analysis
- Developed a schema for 4 relational tables, ensuring data integrity through foreign key constraints, which improved the reliability of over **100,000 transactional records**
- Executed random sampling of 10,000 rows from large datasets to **optimize memory** usage, facilitating efficient data processing and analysis in a resource-constrained environment

Bank Stock Analysis

- Employed advanced techniques such as moving averages and correlation analysis to gain insights into stock behavior and relationships, enhancing understanding of financial market dynamics
- Conducted thorough **exploratory data analysis (EDA)** on stock prices of major banks, spanning from the financial crisis of 2007-08 to early 2016
- Leveraged **pandas** to fetch and manipulate stock data, calculated returns, identified key financial events, and visualized stock performance using seaborn and **matplotlib**