

Sugam Mishra

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EXPERIENCE

Student Programmer

May 2024 – August 2024

South Dakota State University

Brookings, South Dakota

- Developed interactive websites using C# and the .NET framework, showcasing proficiency in front-end and back-end development for college projects.
- Created a range of console applications and interactive forms to support various functionalities, enhancing user experience and application usability.
- **Tools:** .NET, C#, API

Graduate Teaching Assistant

January 2024 – Present

South Dakota State University

Brookings, South Dakota

- Supported C programming classes, guided student learning, assisted in grading.

Cloud Data Engineer

August 2023 – November 2023

GrowByData Pvt LTD

Kathmandu, Nepal

- Designed and implemented a data warehouse solution to store and manage marketing data across multiple clients, ensuring efficient data organization and accessibility tailored to client-specific needs.
- Developed scripts for automated data extraction from major marketing platforms, including Google, Amazon, and Spotify APIs. Enabled seamless data integration and streamlined access to real-time insights for campaign performance analysis.
- **Tools:** AWS, API, Python

Big Data Engineer

May 2021 – August 2023

F1Soft Pvt LTD

Lalitpur, Nepal

- Played a lead role in designing and implementing a robust data architecture, including the creation of a data lake and data warehouse, to support a multi-vertical finance organization's need for handling large-scale, transactional data.
- Developed and optimized SQL queries, shell scripts, and Python code to transform and manipulate high-volume financial data, ensuring data accuracy, consistency, and quality across all processes.
- Engineered scalable, efficient database systems with well-structured data models to support optimal performance and reliable data retrieval for critical financial insights.
- **Tools:** Apache Spark, Database, Apache Airflow, Hadoop

EDUCATION

Master of Computer Science

South Dakota State University, Brookings, South Dakota

GPA 4.0 (Present)

January 2024 – Present

Bachelor's of Computer Science Engineering

KIIT University, Bhubhaneswor, India

GPA 8.9/10

June 2017 – May 2021

RESEARCH WORK

Video Comprehension

Ongoing

- Working on enhancing the DREAM1k dataset for improved model training in video comprehension.
- Developing innovative methods to evaluate model outputs, ensuring accuracy and relevance.
- Building a "chain of thought" architecture to improve model interpretability and performance..

Math Question Generator

Ongoing

- Creating a math question generator that aligns with teachers' instruction and considers student performance in assignments.
- Leveraging Graph RAG to generate questions that adapt to students' comprehension levels, enhancing personalized learning.

SKILLS

MySQL, MongoDB, Airflow, Spark, Kafka, Hadoop, Big Data, Database Modeling, ETL, Python, Scala, Scripting, Quantum Programming, API, Web Technology, Machine Learning, Artificial Intelligence

VOLUNTEER WORK

Rotaract Club

August. 2021 – Present

General Member

Lalitpur, Nepal

- Organized and led multiple events, including fundraising and leadership initiatives to support community projects.
- Coordinated efforts to provide essential supplies to local schools, benefiting under-resourced students.
- Spearheaded environmental campaigns, promoting sustainability and awareness in the community.