# Sumina Awa

Passionate data engineer with a strong interest in applying engineering skills to get data-driven solutions.

## EXPERIENCE

### TechLeadhers Fellowship, Aviyanta Foundation

NOVEMBER 2024 -6 Months (Ongoing)

- Solving a real life bus problem by building a full stack web application
- Collected bus data from traffic division and worked on data modelling, data processing, data transformation using Postgresql·
- Collaborating on a community initiative to educate students about traffic rules while conducting surveys to gather and analyze user preferences, leveraging data engineering skills to collect, process, and interpret data insights for the final project

### Data Camp Fellowship

OCTOBER 2023 - OCTOBER 2024

- Learn various data handling concepts and implemented in classification projects like rock v/s mine on sales analysis dropped unnecessary data as well merged the features and training data to get cumulative insights from overall
- Learn about SQL and data engineering concepts as data preprocessing and implemented on titanic survival prediction where missing values were identified, dropped and categorical variables as sex, Pclass were converted into dummy variables i.e used one hot encoding as model cannot understand categorical variables.

### CodSoft Internship –Remote

NOVEMBER 2023

- Worked on various tasks as assigned regarding data visualization and web development as brain tumor detection where image data preprocessing tasks such as resizing images, normalizing pixel values, and augmenting data to improve model performance were done.

## EDUCATION

### Khwopa College of Engineering, Bhaktapur, Nepal — Bachelor in Computer Engineering

APRIL 2021 - Ongoing  Recent result - 3.71 (6th sem)

## CONTACT

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## SKILLS

**Data Analysis and Visualization:**
NumPy, Matplotlib, Seaborn, Pandas

**Languages:**
Python, PHP

**Technologies and Frameworks:**
Flutter, Git, Data Structures, Algorithms, Object–Oriented Programming

**Database:**
PostgreSQL, MySQL

**Web Designing:**
HTML5, CSS3, JavaScript, WordPress

**Soft Skills:**
Problem Analytics, Communication, Leadership, Teamwork, Management, Resilience, Sociability

## ACTIVITIES

Chairperson of Women Empowerment and Children Welfare Committee, Leo District Council 325G, Nepal

Served as Class Representative for 3 semester in college

Won Hackathon named 'Aarambha 2024' organized by Advanced College of Engineering and Management

Organized hackathon: Hack the Circle– Khwopa 2024 at Khwopa Engineering College

Contributed to Open Source in Hacktoberfest 2023

Awarded Best Presenter at idea pitching competition on KU IT fest 2023

KhEC Student Quality Circle Coordinator

## PROJECTS

### Weather ETL Pipeline (Github)

This project sets up an ETL pipeline using Apache Airflow to extract weather data from the Open Meteo API, transform it into a suitable format, and load it into an S3 bucket and a PostgreSQL database.

Used Docker to run the services locally in a containerized environment

**Tools Used:** Python, dbeaver for PostgreSQL, AWS S3

### Twitter ETL Pipeline (Github)

This project set up an ETL pipeline that fetches justin bieber tweets using the Twitter API, processes them, and saves the refined data into a CSV file.

The pipeline is managed using Apache Airflow.

### Newari Food Detection -Ongoing

Developing a YOLO model to detect Newari dishes, emphasizing cultural significance and accurate representation. ongoing

For data collection, we utilized actual camera-captured images and used Roboflow for annotation, followed by thorough data cleaning.

### Wallmart Sales Analysis and Prediction (Github)

Conducted an in-depth analysis of Walmart sales data to predict weekly sales using various machine learning models, including Decision Tree, Random Forest, XGBoost, and Ridge Regression.

**Tools Used**: Python, Matplotlib, NumPy

### YOLO Safety Equipment Detection (Gtihub)

Developed an online ticket booking system allowing users to browse upcoming movies, reserve seats, and make payments seamlessly.

Trained and validated the model, optimized for multiple object detection, and evaluated its performance using precision metrics &confusion matrix.

**Tools Used:** YOLOv8, Matplotlib, NumPy

### Academic Aid-Tutor Navigator (Github)

Developed an application that streamlines tutor selection for students, enabling easy browsing of tutors with direct messaging and profile management features for both students and tutors.

Designed and integrated an admin dashboard for managing student and teacher profiles and processing teacher payments via ESEWA.

**Tools Used**: HTML5, CSS3, JS, PHP, MySQL

Presented Project at exhibition at college

Data Fellowship at Code for Nepal

Leo Leader at Banepa Leo Club as a Treasurer

Speaker at SPEAK UP: MASTERING THE ART OF PUBLIC SPEAKING and at Conjunctivitis Awareness Session

Deputy Campus Director at On Campus Hult Prize

Associate at ITSNP

## CERTIFICATES

Associate Data Engineer in SQL

Understanding Data Engineering

Data Warehousing Concepts

Database Design

Intermediate SQL

Introduction to Relational Databases in SQL

Master class on 'Excel Dashboards For Data Analytics' by Wscube

25-hour 'Complete Flutter Guide: Build Android, iOS, Web apps