1. Web Platform for ML Models:

- Date: Jan 2021

- A unified web platform for deploying and interacting with ML models like heart disease prediction, diabetes prediction, glass type classification, forest fire prediction, and iris classification

- Built a unified interface to interact with models Random Forest, Naive Bayes, KNN, and Decision Tree.

- Technologies: Python, Flask, HTML, CSS, Machine Learning Models

2. Food Pantry Analysis System:

- Date: September 2024

- A data visualization system that provides analysis on donation and consumer data for forecasting seasonal trends

- Analyzed donation and consumer demand using EDA and Time Series Analysis

- Forecasted inventory needs with XGBoost

- Technologies: Python, Pandas, Matplotlib

3. Twitter Sentiment Analysis:

- Date: Jan 2024

- A data analysis project on Tweets and their sentiments using NLP

- NLP pipeline to classify tweets using NLTK and Machine Learning models

- Technologies: Python, Jupyter Notebook, Scikit-learn

4. Tip Calculator:

- Date: June 2020

- Simple Web application for calculating tips and totals

- Technologies: HTML, CSS, JavaScript

5. Simple ToDo App:

- Date: July 2020

- Simple Web application Task creation and management in browser

- Technologies: HTML, CSS, JavaScript

6. Diabetes Prediction:

- Date: Jan 2025

- Regression-based Machine Learning model with UI

- Technologies: Python, Pandas, Scikit-learn

7. Automatic Street Lighting:

- Date: Jan 2018

- Arduino-based IR sensor system for automatic lighting in the streets when vehicles and pedestrians pass by

- Technologies: Arduino UNO, LEDs, Breadboard, IR sensor

8. Online Placement System:

- Date: Jan 2019

- A web platform for online job and placement management.

- Job application platform for admins and users (Job seekers and Employers)

- Technologies: PHP, MySQL, HTML, CSS

9. Nepali Wish Generator:

- Date: June 2025

- AI-powered app to generate personalized festival and occasion-based wishes in the Nepali language

- Text Wish Generation using Gemini

- Image Wish Generation using DALL·E 3

- Technologies: LLMs(Gemini API, OpenAI DALL.E 3), Python, Next.js, Tailwind, TypeScript