# Milan Bhattarai

Bachelor of Engineering in Information Technology

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Graduate with a strong foundation in Python development and a passion for Data Science, Machine Learning, and AI seeking opportunities to apply skills in a professional setting. Eager to contribute to a dynamic team, leveraging expertise in Python libraries such as NumPy, Pandas, and Matplotlib to drive impactful solutions.

## RESEARCH INTERESTS

- Data Science and Machine Learning
- Text Analysis and Natural Language Processing (NLP)
- Big Data Analytics
- Data Integration and Databases
- Artificial Intelligence and Machine Learning Applications
- Deep Learning in Data Science

## SKILLS

Programming Languages: MATLAB, Python, C/C++
Machine Learning: Reinforcement Learning, Regression, Classification, ARIMA, Exponential Smoothing
Machine Learning Tools: Scikit-learn, Numpy, Pandas, Matplotlib, Seaborn.
Natural Processing Language : TF-IDF, Word2Vec, and Doc2Vec, NER
Deep Learning, AI, Data Science, MySQL Concepts

## PROJECTS

### Grocery Demand Prediction

Developed a grocery demand prediction model using Exponential Smoothing and ARIMA, optimizing inventory, forecasting upcoming seasonal sales price and quantity. It was my Bachelor's degree major project at Everest Engineering College.

*https://github.com/MilanBhattarai77/Grocery-Demand-Prediction*

### Blood Bank and Donor Management System

Developed a web-based Blood Bank and Donor Management System (BBDMS) using HTML, CSS, Bootstrap5, JavaScript, jQuery, PHP, and MySQL, facilitating efficient donor-recipient communication and blood stock management as part of a Minor Project in IT Engineering at Everest Engineering College.

*https://github.com/MilanBhattarai77/Blood-Bank-And-Donar-Management-System*

### MCQ Quiz Exam

Developed a web-based MCQ Quiz Exam application using HTML, CSS, JavaScript, PHP, and MySQL, automating exam management and performance evaluation as part of a mini-project at Everest Engineering College. The application supports various subjects, provides user feedback, and is compatible with major web browsers.

*https://github.com/MilanBhattarai77/MCQ-Quiz-Exam*

### D-Duplication Identification using GDELT(Under review in IEEE)

To identify duplicates and near-duplicates in news articles, we used a combination of techniques including TF-IDF, Doc2Vec, and Named Entity Recognition (NER). Libraries like spacy, pandas, numpy, cosine_similarity, simple_preprocess are used.

## EXPERIENCE

**Research Assistance (Everest Engineering College)**

- Conducted research on text analysis and natural language processing (NLP), focusing on document similarity detection using techniques like TF-IDF, Word2Vec, and Doc2Vec.
- Implemented Named Entity Recognition (NER) for extracting structured insights from unstructured datasets.
- Worked on big data analytics, processing and analyzing large-scale datasets such as GDELT, with a focus on filtering and integrating data into structured databases.
- Explored artificial intelligence (AI) and machine learning (ML) applications for real-world problems, including duplicate detection and data-driven insights in tourism.
- Prepared and organized large datasets for analysis and integration into databases like ClickHouse.

## TRAINING /CERTIFICATIONS

**Crash Course on Python** 2023
Google

*https://www.coursera.org/account/accomplishments/records/58X35AUJ4RA8*

**Process Data from Dirty to Clean** 2023
Google

*https://www.coursera.org/account/accomplishments/records/Z8NTNJ33E58Q*

**Foundations: Data, Data, Everywhere** 2023
Google

*https://www.coursera.org/account/accomplishments/records/WN3HTPF8BXLH*

**Data Science Fundamentals with Python and SQL Specialization** 2024
IBM

*https://www.coursera.org/account/accomplishments/specialization/A8HBBADWN5WL*

## EDUCATION

**Bachelor of Engineering in Information Technology** Sanepa, Lalitpur

Everest Engineering Collage Sep, 2018 - Oct, 2023

**National Education Board** Balkhu, Kathmandu

Kathmandu Bernhardt Secondary School Aug, 2016 - Jul, 2018

**School Leaving Certificate** Sunwal, Nawalparasi

Sakura Memorial Higher Secondary School

## LANGUAGE

English, Nepali, Hindi

## REFERENCES

**Er. Birodh Rijal**
Associate Professor & Principal
Everest Engineering College
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**Dr. Shailesh Pandey**
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