

# 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

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- 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

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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

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### 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 GDEL(T(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

<b>Crash Course on Python</b> Google  <a href="https://www.coursera.org/account/accomplishments/records/58X35AUJ4RA8">https://www.coursera.org/account/accomplishments/records/58X35AUJ4RA8</a>	2023
<b>Process Data from Dirty to Clean</b> Google  <a href="https://www.coursera.org/account/accomplishments/records/Z8NTNJ33E58Q">https://www.coursera.org/account/accomplishments/records/Z8NTNJ33E58Q</a>	2023
<b>Foundations: Data, Data, Everywhere</b> Google  <a href="https://www.coursera.org/account/accomplishments/records/WN3HTPF8BXLH">https://www.coursera.org/account/accomplishments/records/WN3HTPF8BXLH</a>	2023
<b>Data Science Fundamentals with Python and SQL Specialization</b> IBM  <a href="https://www.coursera.org/account/accomplishments/specialization/A8HBBADWN5WL">https://www.coursera.org/account/accomplishments/specialization/A8HBBADWN5WL</a>	2024

EDUCATION

<b>Bachelor of Engineering in Information Technology</b> Everest Engineering Collage  <i>CGPA : 2.66/4</i>	Sanepa, Lalitpur Sep, 2018 - Feb, 2024
<b>National Education Board</b> Kathmandu Bernhardt Secondary School  <i>CGPA 3.12/4</i>	Balkhu, Kathmandu Aug, 2016 - Jul, 2018
<b>School Leaving Certificate</b> Sakura Memorial Higher Secondary School  <i>GPA 3.45/4</i>	Sunwal, Nawalparasi

LANGUAGE

English, Nepali, Hindi

REFERENCES

<b>Dr. Birodh Rijal</b> Associate Professor & HOD Everest Engineering College birodh.rijal@eemc.edu.np	<b>Dr.Shailesh Pandey</b> Associate Professor Everest Engineering College shailesh.pandey@eemc.edu.np	<b>Dr. Nishal Regmi</b> Assistant Professor Everest Engineering College Nishal.regmi@eemc.edu.np
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