

RABIN GHIMIRE

MACHINE LEARNING ENGINEER

NEC Registration No: 81092

Artificial Intelligence || Machine Learning || Quantum Computing

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ABOUT ME:

Experienced AI/ML professional with a strong grasp of quantum computing. Skilled in advanced algorithm design and implementation. Passionate about staying abreast of technological advancements. Proven ability to excel in collaborative and independent projects. Seeking challenging AI/ML opportunities to contribute and enhance expertise.

EDUCATION:

- **2024 – 2026: M.Sc. in Computer system and Knowledge Engineering**
Institute of Engineering,
Pulchowk Campus
- **2018 - 2023: BE Computer Engineering**
Himalaya College of Engineering
Lalitpur, Nepal
- **2023: Micro-degree in Artificial Intelligence**
Fusemachines Nepal
- **2022 -2023: Global Quantum Computing Program**
Womanium Foundation, USA
- **2017 - 2018: High School Level (+2 Science)**
Koshi Saint James Residential Secondary School
Itahari, Nepal
- **2016: School Level (SLC)**
Koshi Saint James Residential Higher Secondary School
Itahari, Nepal

TEACHING EXPERIENCE:

- **Assistant Lecturer**
Cosmos College of Management and Technology
November 2024 - Present
- **Data Science Instructor**
Brand Builder
October 2024- Present
- **AI Trainer**
Dakshyalaya Training Institute
Aug 2024 – Present

- **Teaching Assistant**
HCOE, IOE, TU
April 2023 – October 2023

WORK EXPERIENCE:

- **Machine Learning Engineer**
Fusemachines Nepal
Aug 2023 – Present
- **Machine Learning Engineer**
Omdena Nepal Chapter
Jan 2023 – Aug 2023

HONORS AND AWARDS:

- ❖ 2023: Fusemachines AI fellowship 2023
- ❖ 2023: Global Quantum Scholarship
- ❖ 2022: Womanium Foundation Scholarship Program
- ❖ 2020: Silver Honor, International Youth Mathematics Challenge-2020
- ❖ 2020: Global Problem Solver, NASA SPACE COVID CHALLENGE-2020
- ❖ 2019: College Ambassador, International Youth Society, Nepal
- ❖ 2016: Koshi Ambassador Award (KAA) - 2016

CERTIFICATIONS:

1. Micro-degree in Artificial Intelligence by Fusemachines Nepal.
2. Machine Learning with Python
3. Mathematics for Machine Learning
4. QBronze, QSilver, QMercury certification on Quantum Computing by Qworld
5. Quantum Key Distribution, Quantum Sensing, Quantum Software and Quantum Hardware Certifications by Womanium Foundation.
6. Scrum Master Certification by LearnQuest

7. AI for everyone: Master the basics for IBM
8. Python 101 for Data Science from Cognitive Class
9. Introduction to Data Science from IBM
10. Programming for everybody from Michigan University
11. Python Data structures
12. Design Thinking for Innovation

PROJECTS ACCOMPLISHED:

1. Monet Style Art Painting:

- Utilized CycleGAN to Transform Images into Monet-style artworks, replicating the iconic impressionist style.
- Developed an automated process for converting photographs into Monet-inspired art by training CycleGAN on a dataset of Monet's paintings and diverse photographs.

Github Link: <https://github.com/rabinghimire1999/Monet-Style-Art-Painting-using-CycleGAN>

2. Paddy Disease Diagnosis System:

- Utilized CNN for accurate disease diagnosis in paddy plants.
- Improved crop yield by enabling timely treatment and prevention of losses.

Github Link: <https://github.com/rabinghimire1999/Paddy-Disease-Diagnosis-System>

3. Cataract Detection System:

- Used image processing techniques to identify cataracts in digital eye images.
- Facilitated early diagnosis and treatment to improve patients' quality of life.

Github Link: <https://github.com/rabinghimire1999/Cataract-Detection-Using-Digital-Image-processing>

4. AI-based Tic-Tac-Toe:

- Implemented the Minimax Algorithm for an intelligent AI opponent.

- Provided players with a challenging gameplay experience against the optimal AI moves.

Github Link: <https://github.com/rabinghimire1999/AI-based-Tic-Tac-toe-game>

5. Facial Recognition-Based Attendance Management System:

- Created a system for facial recognition-based attendance management.
- Developed endpoints for registering and recognizing faces using Python's face recognition library.

Github Link: <https://github.com/rabinghimire1999/Face-based-Recognition-System>

VOLUNTEER EXPERIENCE:

- **Computer Science Mentor**
Students Research Council Nepal
Oct 2023 - Dec 2023
- **Mentor**
Quantum Hack
Jul 2020 - Aug 2020
- **Campus Representative**
Hult Prize at IOE, Pulchowk Campus
Oct 2020 - Dec 2020

SKILLS:

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|--------------------------------|--|
| • Machine Learning with Python | analysis |
| • AWS,GCP | • Proficient in Programming Language such as Python, C++ |
| • Deep Learning | • MySQL, PostgreSQL |
| • Data Science | • Hadoop, Spark |
| • Computer Vision | • Apache Airflow |
| • Natural Language Processing | • Tableau, Power BI |
| • Quantum Programming | • Docker |
| • Exploratory data analysis | • Git, Github |
| • Data Visualization and data | |

- MongoDB

RESEARCH INTERESTS:

Artificial Intelligence, Machine Learning, Computer Vision, Natural Language, Processing, Artificial General Intelligence, Mathematics, Big data, Database, Quantum Computing, Quantum Key Distribution, Quantum Sensing, Quantum Machine Learning.