

Ashok Lamichhane

Computer Engineer, Kathmandu, Nepal

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SUMMARY

A motivated and passionate Computer Engineer with a strong interest in Artificial Intelligence, Machine Learning, Data Science and Natural Language Processing, eager to enhance their skills and make impactful contributions in the tech industry. Passionate about exploring innovative solutions and leveraging advanced technologies to solve real-world problems, Full Stack Web Developer with substantial project experience.

RESEARCH INTERESTS

Artificial Intelligence, Machine Learning, Natural Language Processing, Software Development, Human-Computer Interaction, IoT Performance Improvement, Computer Graphics

EDUCATION

BRAC University, Dhaka, Bangladesh Oct, 2020 — Oct, 2024
Bachelor of Science in Computer Science & Engineering CGPA: 3.91/4.00
Thesis Title: TikNep: Content Analysis of Nepali TikTok Users using Natural Language Processing [Full_Thesis]

Pushpal Memorial College, Kathmandu, Nepal 2017 — 2019
Nepal Examination Board: Plus two (+2) Higher Secondary Level CGPA: 3.18/4.00

ACADEMIC EXPERIENCE

Robotics Club of BRAC University Dhaka, Bangladesh
Junior Executive Feb, 2021 — Jan, 2024

- Developed Knowledge sharing skills as well as Hardware/Software robotic skills.
- Developed Public Speaking & Leadership Skills.
- Organised different programs & Volunteered them.

Seto Bangala High School Kathmandu, Nepal
Secondary Mathematics Teacher Jan, 2019 — Feb, 2020

- Taught Mathematics & Opt. Mathematics to secondary level.
- Organised different types of ECA activities & Programs.
- Learned Effective teaching Skills, Program coordination & Empower weak students.
- Taught Home Tuition for focus on individual Student Guidance.

ACADEMIC PROJECTS

Rentase Nepal: Online Hotel Booking Website [GitHub_Link]
System Analysis & Design (MERN Stack) May, 2024 — Sep, 2024

- Successfully completed full functioning website/app.
- Login from customer and Owner with respective functionalities.
- Add property descriptions, pictures and it can accommodate all types of tourist places.

Explainable Detection of Online Sexism (EDOS) [GitHub_Link]
Natural Language Processing (NLTK) Jan, 2024 — May, 2024

- Successfully completed two tasks of EDOS.
- Task (A) - Binary Classification (Sexism & Not Sexism) with 82% F1-Score.
- Task (B) - Four class Classification (Threats, Derogation, Animosity & Prejudiced Discussion) with 49% F1-Score.

Chronic Kidney Disease Prediction (CKD) [GitHub_Link]
Machine Learning Models Jan, 2024 — May, 2024

- Successfully completed binary classification of having CKD or not.
- Used five different ML models (RF, LR, KNN, SVM & NV).
- Got Highest 96.3% Accuracy & F1-Score with Support Vector Machine (SVM).

Stock Market Prediction*Artificial intelligence Course Project (Python)*[GitHub_Link]
May, 2023 — Sep, 2023

- Did regression task that calculate Profit/Loss when buy at opening & Sell at closing.
- Used different ML models (LR, SVR, DT, RF & KNN).
- By Model Accuracy Random Forest performed well with 99.4% Accuracy.
- By Profit Got Support Vector Regression performed well with 53.24% Accuracy.

Fighter Plane Game*Computer Graphics Project (Python OpenGL)*[GitHub_Link]
May, 2023 — Sep, 2023

- Developed fully functioning game where helicopter hit the target for gaining scores.
- Game have scores with different difficulty level with set life for gamer.
- Learned to use Python OpenGL and it's different libraries.

Online Pizza Delivery System*Data-Base Management System Based Web Portal*[GitHub_Link]
Sep, 2022 — Jan, 2023

- Successfully completed fully functioning pizza ordering website.
- Used MySQL database, Raw PHP back-end & HTML, CSS JS for front-end.
- Advanced features like payment option, restaurant adding & adding delivery boys.

PUBLICATIONS

IEEE Conference paper

TikNep: Content Analysis of Nepali TikTok Users using Natural Language Processing: Submitted

[Full_Paper]

- Lamichhane, A., Dhakal, A., Jha, A. K., & Singh, M. P. (2024). TikNep: Content Analysis of Nepali TikTok Users using Natural Language Processing. In *Department of Computer Science & Engineering*, BRAC University.

IEEE Conference paper

Foundational Machine Learning Approaches for Chronic Kidney Disease Identification: Submitted

[Full_Paper]

- Lamichhane, A., Singh, M. P., & Haque, S. (2024). Foundational Machine Learning Approaches for Chronic Kidney Disease Identification. In *BRAC University*.

SELECTED COURSES

Bachelor's Courses

- | | |
|--|---|
| • Programming Language I & II | • Computer Architecture |
| • Data Structures & Algorithms | • Microprocessors |
| • Digital Logic Design | • Digital Electronics and Pulse Techniques & VLSI |
| • Circuits & Electronic Devices and Circuits | • Computer Interfacing & Introduction to Robotics |
| • Data Communications & Computer Networks | • Database Systems |
| • Numerical Methods & Automata and Computability | • Compiler Design |
| • Software Engineering & Systems Analysis and Design | • Artificial Intelligence & Machine Learning |
| • Computer Graphics | • Natural Language Processing II |

TRAINING AND CERTIFICATION

Unsupervised Learning, Recommenders, Reinforcement Learning

DeepLearning.AI, Stanford University

Sep, 2024

2024 Aspire Leadership Program

Aspire Leaders Program

Apr, 2024

Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization

Coursera

Jan, 2024

Google Data Analytics Capstone: Complete a Case Study

Coursera

Jan, 2024

Python for Data Science and AI

Coursera

Oct, 2023

SKILLS

- **Programming Tools:** Python, MySQL, C, JavaScript, HTML/CSS, MongoDB, GitHub, ML/NLP/DS Tools
- **Software Libraries:** Numpy, Pandas, Matplotlib, Seaborn, Scikit-learn, NLTK, TensorFlow, PyTorch, Keras
- **Soft Skills:** Communication, Fast Learner, Patience, Problem-solving, Adaptability, Time Management, Analytical Thinking, Collaboration, Creativity, Motivational skills

LANGUAGES AND HOBBIES

Languages

- English [Expert]
- Nepali [Expert]
- Hindi [Intermediate]
- Bengali [Intermediate]

Hobbies

- Watching Tech Movies
- Robotics & Software Things
- Reading Books
- Cricket

REFERENCES

Dr. Farig Yousuf Sadeque

Associate Professor, Department of Computer Science and Engineering, BRAC University, Dhaka, Bangladesh

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About People in University: [Personal Page Link](#)

Ramesh Lamichhane

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