

# Ashok Lamichhane

Computer Engineer, Kathmandu, Nepal

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## SUMMARY

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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

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

## EDUCATION

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**BRAC University**, Dhaka, Bangladesh Oct, 2020 — Oct, 2024  
Bachelor of Science in Computer Science & Engineering CGPA: 3.92/4.00  
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

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**Zebra Infotech Pvt. Ltd.** Kathmandu, Nepal (Remote)  
*MERN Developer Intern* Feb, 2024 — May, 2024

- Developed different web application using MERN Stack Js framework.
- Learned Software Development life cycle.
- Leaned about Requirements gathering & Feature Engineering.

**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 low capable students.

## ACADEMIC PROJECTS

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**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

[GitHub\_Link]

Artificial intelligence Course Project (Python)

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

[GitHub\_Link]

Computer Graphics Project (Python OpenGL)

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

[GitHub\_Link]

Data-Base Management System Based Web Portal

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

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### 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

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### Bachelor's Courses

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| • 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

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### 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

## OTHER EXPERIENCES

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### Home Tuition Nepal

*Home Tutor*

Kathmandu, Nepal

2017 — 2019

- Delivered teaching to weak students, Tracked Overall Progress.
- Helped in ECA activities.

### Child Club Nepal

*Club President*

Sindhupalchok, Nepal

2016 — 2017

- Organised different types of cleaning campaigns, Organised Refreshment Tour.
- Organised inter school & inter village quiz competition.

## SKILLS

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- **Programming:** Python, C, JavaScript, MySQL, HTML/CSS, MongoDB, Express js, React js, Node js
- **Software:** VS Code, GitHub, PyCharm, Proteus, Verilog, Wireshark, Jupyter Notebook, Google-Tools, Microsoft-Tools
- **Soft Skills:** Communication, Fast Learner, Patience, Problem-solving, Adaptability, Time Management, Analytical Thinking, Collaboration, Creativity, Motivational skills

## LANGUAGES AND HOBBIES

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### Languages

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

### Hobbies

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

## REFERENCES

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### Dr. Farig Yousuf Sadeque

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

E-mail: farig.sadeque@bracu.ac.bd

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

### Kumod Sah

*Project Manager, Zebra Infotech Pvt. Ltd., Lalitpur, Nepal*

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LinkedIn: [LinkedIn Link](#)

### Ramesh Lamichhane

*Coordinator, Seto Bangala High School, Kathmandu, Nepal*

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