

Nabin Adhikari

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AI | ML | Deep Learning | Data Science | Blockchain | Software Engineering

Summary:
Passionate and meticulous student working towards a MS in Computer Engineering. Strong background in Deep Learning-based computer vision, classical machine learning and, data science. Eager to explore opportunities in relevant fields.

Experience

- Mar 2025 – **License Technology Marketing and Commercialization Intern,**
Present VIRGINIA TECH, OFFICE OF RESEARCH AND INNOVATION, Blacksburg, VA.
- Sep 2022 – **Founder & CEO, LAXMI SOFT PVT. LTD.,** Kathmandu, Nepal.
Present
 - Led AI-driven enterprise solutions, team building, and strategic growth initiatives.
 - Established a succession plan to ensure smooth operations during leave.
- (Academic Leave)
- Dec 2023 – **Course Instructor, DEERWALK TRAINING CENTER,** Kathmandu, Nepal.
Jul 2024
 - Data Science and Machine Learning in Python Course Instructor
- Sep 2021 – **Blockchain Fellowship, ESATYA, RUMSAN GROUP OF COMPANIES,** Kathmandu, Nepal.
Mar 2022
 - Learn blockchain based development
 - JavaScript, Solidity, Smart Contracts, Digital Wallet, etc

Education

- Jan 2025 – **Virginia Polytechnic Institute and State University (VT), Blacksburg, Virginia, USA,**
Present *MS in Computer Engineering, The Bradley Department of Electrical and Computer Engineering.*
- Nov 2017 – **Khwopa College of Engineering (Tribhuvan University), Libali, Bhaktapur, Nepal,**
Mar 2022 *Bachelor of Engineering - BE (Computer Engineering).*
Overall Grade: 78.98% (Rank: Top 3 out of 48) (3.96 in 4 scale, Source:WES-iGPA Calculator)
- Aug 2015 – **Uniglobe HSS, Kamaladi, Kathmandu, Nepal,**
Jul 2017 *High School(Major: Computer Science, Physics, Math).*
Overall Grade: 80.00% (Rank: Top 10 out of 516)

Skills

- Languages Python(Most Comfortable), C/C++, SQL, JS, Java, Android(Java), NoSQL, SQL, Solidity, HTML/CSS
- Domain AI-ML, Deep Learning, Computer Vision, Data Science, Blockchain
- Frameworks Tensorflow, Keras, Pytorch, Numpy, Scipy, Pillow, Fastapi, Flask, OpenCV, Scikit-Learn, Scikit-Image, Matplotlib, Matlab
- Utilities Anaconda, Git, VS Code, Jupyter Notebook
- Communication English, Hindi, Nepali(Native)
- Others Agile Methodology(SCRUM framework), Design Patterns, Photoshop, Illustrator, Linux Scripting, LaTeX

Publications

- 2023 **Over speed surveillance system using Deep Learning and Distributed System, The Journal of Engineering,**
(Under Review) Sanjog Gaihre, Aabhas Dhaubanja, Nabin Adhikari, Nitesh Das, Pratik Tamrakar, Binod Sharma,
<https://www.authorea.com/doi/full/10.22541/au.169588812.21333562/v1> (preprint).
- 2023 **Towards Energy Equity: Technological Interventions for Reliable Electricity in the Himalayas, Next Energy,**
(Under Review) Yaju Rajbhandary, Anup Marahatta, Nabin Adhikari and Ashish Shrestha.

Projects

- 2022 **Automated Face Recognition Based Attendance System Using Retina face and FaceNet, Khwopa College of Engineering, Bhaktapur, Nepal,**
<https://github.com/nabinadhikariofficial/Automated-Face-Recognition-Based-Attendance-System>.
Summary: A machine learning based approach for taking attendance in class and it's database management.
Tools: Python, Scikit-learn, Tensorflow2.x, Keras, Facenet, RetinaFace, Flask, NoSQL
- 2021 **Fund Allocation and Tracking through Blockchain, Khwopa College of Engineering, Nepal,**
<https://github.com/nabinadhikariofficial/FundAllocationAndTracking>.
Summary: Decentralized fund management system with transparent fund allocation and tracking underlying blockchain architecture.
Tools: Python, Numpy, MySQL, Solidity, Smart Contract
- 2020 **Marriage point calculator (Android Application),**
<https://github.com/nabinadhikariofficial/Marriage-point-calculator>.
Summary: This app calculates the points for that particular card game which is found to be tedious for players and gives their equivalent points based upon the calculation.
Tools: Android(Java)-Android Studio

- 2018 **Water Boiler Controller Arduino (Android Application)**, *Khwopa College of Engineering, Nepal*,
<https://github.com/nabinadhikariofficial/Water-Boiler-Controller-Arduino>.
Summary: This project is Arduino based water boiler controller where android app is created which is used as the controlling mechanism for the Arduino, running on the basis of different sensors used for controlling the actual hardware
Tools: Android(Java)-Android Studio, Arduino IDE

Courses and Certifications

- 2023 **4th Annual Nepal AI School(ANAIIS)**, *NepAI Applied Mathematics and Informatics Institute for Research, Lalitpur, Nepal*, *Certificate link*.
 - 10-day (55 hrs lectures + 18 hrs lab sessions + 14 hrs Project and Professional development sessions)
 - Keynote speakers:(Prof. Angela Yao, Prof. CV Jawahar, Dr. Gaël Varoquaux, Prof. Michael Bronstein & Prof. Pushpak Bhattacharyya)
- 2023 **Deep Learning Specialization (5 Courses)**, *Coursera: Certificate link*.
 - Neural Networks and Deep Learning
 - Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization
 - Structuring Machine Learning Projects
 - Convolutional Neural Networks
 - Sequence Models
- 2023 **Machine Learning Specialization (3 Courses)**, *Coursera: Certificate link*.
 - Supervised Machine Learning: Regression and Classification
 - Advanced Learning Algorithms
 - Unsupervised Learning, Recommenders, Reinforcement Learning
- 2023 **Mathematics for Machine Learning and Data Science Specialization (3 Courses)**, *Coursera: Certificate link*.
 - Linear Algebra for Machine Learning and Data Science
 - Calculus for Machine Learning and Data Science
 - Probability and Statistics for Machine Learning and Data Science
- 2023 **Introduction to Deep Learning**, *MIT*, introtodeeplearning.com.
 - MIT's introductory program on deep learning methods covers computer vision, natural language processing, biology, and more.
- 2020 **CS50's Introduction to Artificial Intelligence with Python 2020**, *Harvard University*.
 - This course explores the concepts and algorithms at the foundation of modern artificial intelligence, diving into the ideas that give rise to technologies like game-playing engines, handwriting recognition, and machine translation.
 - Learned from the CS50 Youtube Channel, [Link to Video Playlist](#)

Awards and Talks

- 2022 **AI and Blockchain, Speaker**, *Esatya, Kathmandu, Nepal*.
- 2019 **Presentation Competition, Runner-up**, *Khwopa college of Engineering, Bhaktapur, Nepal*.
- 2018 **Robot Competition(Line Tracking), 2nd Runner-up**, *Khwopa college of Engineering, Bhaktapur, Nepal*.
- 2016 **Science Festival 2016, Runner-up**, *Uniglobe HSS, Kathmandu, Nepal*.
- 2016 **Web Design Competition, Runner-up**, *Uniglobe HSS, Kathmandu, Nepal*.
- 2014 **Vth Gyan Wiz Week, Finalist (Math quiz)**, *AVM Higher Secondary School, Lalitpur, Nepal*.

Leadership and Volunteer Experiences

- 2023 **Lions Club of Kathmandu Sundhara Bagdurbar, Treasurer**.
- 2022 **Lions Club of Kathmandu Sundhara Bagdurbar, Charter Member (Int. lions id: 5936431)**.
- 2021 **Khwopa Annual Event, Picnic Coordinator (Computer Department)**.
- 2020 **Khwopa Robotics Event, Organizing team**.
- 2017 **Uniglobe Science Club, Member**.

References

Er. Dinesh Gothe, gothe.dinesh@khwopa.edu.np,
Head of Department, Department of Computer Engineering, Khwopa College of Engineering.

Dr. Danda Pani Paudel, paudel@vision.ee.ethz.ch,
Computer Vision Lab, ETH Zurich.

Ashish Shrestha, Ashish.Shrestha@usn.no,
PhD Research fellow, University of South-Eastern Norway.

Other references of my work, certificates and projects are available upon request.