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Nabin Adhikari, BE (Computer Engineering).

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

Experience

Sep 2022–Present
Founder & CEO, Laxmi Soft Pvt. Ltd., Kathmandu, Nepal.
- Lead company's projects
- Handle overall management/communication

Sep 2021–Mar 2022
Blockchain Fellowship, Esatya,Rumsan Group of Companies, Kathmandu, Nepal.
- Learn blockchain based development
- JavaScript, Solidity, Smart Contracts, Digital Wallet, etc

Education

Nov 2017–Mar 2022
Khwopa College of Engineering (Tribhuvan University), Libali, Bhaktapur, Nepal,
Bachelor of Engineering - BE (Computer Engineering).
Overall Grade: 78.98% (3.96 in 4 scale, Source:WES-iGPA Calculator)

Aug 2015–Jul 2017
Uniglobe HSS, Kamaladi, Kathmandu, Nepal,
High School(Major: Computer Science, Physics, Math).
Overall Grade: 80.00%

Skills

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

Projects

2022 – Present
Self-learning approach to estimate the real-time electricity-mix- limit in a converter-dominated power system.
> **Summary**: This strategy's main objective is to ensure that the IBR-dominated power system can be operated safely in both normal and emergency scenarios using Self-learning Based approaches.
> **Tools**: Python, Tensorflow2.x, Keras, Matlab

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/Marraige-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

Extra Courses and Trainings

2023 **4th Annual Nepal AI School(ANAIS)**, *NepAI Applied Mathematics and Informatics Institute for Research*, Lalitpur,Nepal.
- 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 **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, Joint 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.

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.