

Dilli Hang Rai

CS Student

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Skills

- **Programming Languages & Frameworks:** C/C++, Python, Django, React Js
 - **Machine Learning Tools:** TensorFlow, PyTorch, NumPy, Keras, Scikit-learn, Pandas, OpenCV
 - **Data visualization Tools:** Matplotlib, Seaborn
 - **Others:** GitHub, Technical Writing, LaTeX
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Experience

AI Fellowship (100% Scholarship)

Fusemachines | April 2025 - Present

Web Developer

EDA Nepal Pvt. Ltd, Kathmandu (Remote) | August 2021 - November 2022

Education

Bachelor of Science in Computer Science and Information Technology (B.Sc. CSIT)

Godawari College, Affiliated to Tribhuvan University, Itahari-9, Sunsari

April 2022 - March 2026

Chosen Electives in B.Sc. CSIT

- **CSC321 Digital Image Processing**
- **CSC372 Neural Networks**
- **CSC413 Information Retrieval**

+2/ I.Sc (Physics, Maths, Chemistry, Biology)

National Examinations Board (NEB) in Nepal, Rastriya Janasayog College

Research Profile: Google Scholar

Please click on the underlined text to view in detail

Publications

1. Skin Cancer Classification Using Transfer Learning With MobileOne: A Deep Learning Approach (*Journal of Engineering Issues and Solutions- NepJOL 2025*)
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Research Projects | GitHub

ECG Biometrics Authentication using Deep Learning Hybrid Lightweight model: MobilenetV1+GRU (*A Research-Based Final Year Project for Partial Fulfillment of B.Sc. CSIT, 7th Semester – IoST, Tribhuvan University*)

- Proposal

Skin Cancer Classification Using Transfer Learning with MobileOne (new approach): A Deep Learning Approach

- Conference Presentation
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Articles, Blogs, and Preprints

Please click on the underlined text to view in detail

1. Medium - 60+ Articles and blogs on various computer science topics.
2. ResearchGate

Associations | Organizations

Robotics Association of Nepal (RAN)

Member · Aug 2025 - Present

Projects | GitHub

Please click on the underlined text to view in detail

ML Projects GitHub

NLP

1. Sentiment Analysis: Developed a sentiment analysis model for review classification
2. Language Identifier/Text Identifier ~ N-Gram Model: Developed an offline N-Gram model for language/text identification

Reinforcement Learning & Static Agent

3. Reinforcement Learning: Lunar Landing Simulation Example, Project (Coursera)
4. Chess - Ongoing project (Pending)
5. Maze Runner Agent - Designed a simple AI agent capable of calculating the navigation path and solving simple mazes
6. Rock-Paper-Scissors with Agent (freecodecamp Final Project)

HealthCare

7. MedXAI - Health Report Assist Translator (Abstract Concept) using OCR
8. Machine Learning Based Breast Cancer Model Prediction System
9. Linear Regression Model - Health Cost Predictor

Machine Learning & Computer Vision

10. Speech-to-text - Developed using Python Speech Recognition Library
11. CNN Object Classification: Implemented a Convolutional Neural Network for Multi-Class Object

12. [Handwritten Digit Recognition - CNN](#)
13. [YOLO](#) - Real-Time Video Object Detection & Classification
14. [Small Neural Network ~ Spam or Pam Email Classifier](#)
15. [Book Recommender - KNN](#)
16. [Movie Recommendation System](#) (Recommendation System) Built using a Tutorial of the TensorFlow recommendation system for movies

FullStack Software Development

17. [Mero Khutruke ~ Personal FinTech App](#)
 18. [Blog App](#)
 19. [Susthiti \(सुस्थिति\) Mental Health App | Canva Ppt ~ Demo](#)
 20. [CSIT Solution App](#) - Developed a comprehensive app for accessing and managing all academic resources from a B.Sc. CSIT program
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Certificates

Please click on the underlined text to view in detail

Courses

1. [Machine Learning Specialization Coursera](#)
2. [Machine Learning with Python certification @freeCodeCamp!](#)
3. [Calculus for Machine Learning and Data Science](#)
4. [Linear Algebra for Machine Learning and Data Science](#)
5. [JavaScript Algorithms and Data Structures - freecodecamp](#)
6. [Full Stack Development Course - Level Up](#)
7. [AI For Everyone - DeepLearning.ai](#)
8. [Introduction to Python - Datacamp](#)

Self Learning Challenges Certificate

9. [100 Days of Self-Learning - SkillShikshya & ITSNP \(AI/ML\) 2023-2024](#)
10. [#60DaysOfLearningwithLeapfrog](#) - 2022, 2023, 2024, 2025

11. Learning Utsav Challenge (Dashain-Tihar 2081 BS by KEC): 2024
12. 100DaysOfMaths (Self-Learning Maths Challenge) 2024

Professional Working Experience Certificate

Web Developer - EDA Nepal Pvt. Ltd

Events & Participants (Conference, Webinar, & Seminar Certificates)

Please click on the underlined text to view in detail

1. **International Conference on Recent Trends in Artificial Intelligence in Birtamode, Koshi Province, Nepal, ICRTAI 2025** (Paper/Study Author & Presenter)
 2. **National Webinar on Final Year Project Report Writing for B.Sc. CSIT Students (2025)**
 3. ACES TECHFEST 7.0 HACKATHON 2024 - Participation
 4. #LearningUtsav2024 - Top Learner
 5. #60DaysOfLearningWithLeapFrog - 2024 (Top 60 Exceptional Learner)
 6. National Webinar on Machine Learning by Dr. Tej Bahadur Shahi, TU, Nepal
 7. **AI Talk - (Event Management & ML Project Demonstration 2024)**
 8. IIC Quest 2.0 Hackathon - Team Lead and Competitor (2024)
 9. FrontEnd/Web Design Workshop - Workshop Mentor at Sushma Godawari College (2023)
 10. CAN-INFOTECH 2024 - Participant/College Representative at InfoTech Fair (2023)
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Social Media and Profile Links

Please click on the underlined text to view in detail

1. GitHub
2. LinkedIn
3. Twitter

Resume Last Updated on: 21 Aug 2025 02:35 PM