

# Bikash Adhikari

+977-9840947215 | [adbik378@gmail.com](mailto:adbik378@gmail.com) | [linkedin.com/bikash](https://www.linkedin.com/in/bikash) | [github.com/iambikash378](https://github.com/iambikash378)

## EDUCATION

### Pulchowk Campus, IOE, Tribhuvan University

*Bachelor in Electronics, Communication and Information Engineering*

*Relevant Coursework* : OOP, OOSE, DBMS, OS, DSA, Information Systems, AI

Lalitpur, Nepal

*April. 2021 – May. 2025*

### SOS Hermann Gmeiner School

*High School (+2, NEB)*

Bhaktapur, Nepal

*July. 2018 – Oct. 2020*

## PROJECTS

### Online Realtime Chat Application | *Typescript, NestJS, ReactJS*

Aug. 2025

- Implemented a RealTime Chat Application using NestJS for backend and ReactJS for frontend

### iLearn: Learning Platform | *ReactJS, NodeJS, ExpressJS, DynamoDB*

June. 2025 – Aug. 2025

- Implemented the frontend and backend of a Learning Platform (MOOC Platform) using ReactJS, ExpressJS, DynamoDB and some MaterialUI
- Leveraged AWS S3 with Cloudfront to deliver lecture videos using AWS Free Tier
- Application Tier hosted on AWS EC2 instance using nginx and Web Tier hosted on AWS S3 Bucket
- Implemented Authentication and Authorization, and filtering by topics
- Implemented a CI/CD Pipeline for automating deployment of both frontend and backend

### AI Based Chronic Otitis Media Detection from Otoscopy Images | *Pytorch, Lightning*

March. 2025 – May. 2025

- Training and Evaluating Deep Learning Models for Image Classification with publicly available datasets
- Experiment Tracking and Metrics Logging using MLFlow

### Landslide Detection with Satellite Imagery using Deep Learning | *Python, Pytorch*

July. 2024 – April. 2025

- Developed a landslide detection model using Deep Learning architecture UNet
- Performed Deep Learning experiments by creating custom training and evaluation loops using Pytorch, MLFlow and Dagshub
- Deployed trained model using HuggingFace Spaces and Gradio

### Sentiment Analysis Using Naive Bayes | *NLTK, Matplotlib, Numpy, Scikit-learn*

July 2024 – Aug. 2024

## TECHNICAL SKILLS

**Languages:** Python, SQL, JavaScript, Typescript, HTML, CSS, LaTeX

**Developer Tools:** Git, Github, Docker, VS Code

**Libraries and Frameworks:** ReactJS, NodeJS, ExpressJS, NestJS MaterialUI, Pandas, NumPy, Matplotlib, Scikit-learn, PyTorch, Pytorch-Lightning

**Database:** PostgreSQL, MySQL, MongoDB, DynamoDB

## EXPERIENCE

### AWS Cloud Apprentice

*Ader International Pvt. Ltd.*

May. 2025 – June 2025

*Lalitpur, Nepal*

- Learnt about AWS Services and principles of Well-Architected Framework
- Acquired Hands-On skills on building scalable, resilient and cost-efficient architectures in Cloud using AWS

### Research Intern

*Nepal Applied Mathematics and Informatics Institute (NAAMII)*

Feb. 2025 – May. 2025

*Lalitpur, Nepal*

- Worked on problem understanding on the project 'AI based Otitis Media Screening'
- Learnt to use Pytorch Lightning and Hydra for Machine Learning Experimentation and Prototyping
- Exploration of the public datasets and ongoing researches in AI-based Otitis Media Screening
- Implementation of training and evaluation loops for Otoscope Image Classification in Pytorch

## TRAININGS AND CERTIFICATIONS

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<b>AWS Certified Solutions Architect Associate - SAA CO3</b> <i>Amazon Web Services</i>	July. 2025
<b>Git and Github: Beyond Basics</b> <i>Red Dot Technologies</i>	July. 2025 <i>Kathmandu, Nepal</i>
<b>Introduction to Data Engineering</b> <i>coursera.org</i>	Sept. 2024 <i>IBM</i>
<b>Python for Data Science, AI and Development</b> <i>coursera.org</i>	Sept. 2024 <i>IBM</i>
<b>Annual Nepal AI School (AN AIS)</b> <i>Nepal Applied Mathematics and Informatics Institute (NAAMII)</i>	May 2023 – June 2023 <i>Lalitpur, Nepal</i>
<b>Online Leadership Course - Aspire Leaders Program</b> <i>Aspire Institute</i>	March 2023 <i>Online</i>

## AWARDS AND HONORS

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<b>Honorable Mentiton in IEEE WIE Climate Tech Big Idea Pitch Competition</b>	July. 2024
<b>Full Scholarship at Tribhuvan University, Institute Of Engineering</b>	May 2021 – Apr. 2025

## VOLUNTARY EXPERIENCE

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<b>Chair</b> <i>IEEE Student Branch, IOE, Pulchowk</i> <ul style="list-style-type: none"><li>· Led a team of 12 Committee Members and 90+ General Student Members for conducting 10+ Technical Events throughout the tenure</li><li>· Sucessfully organized IEEE Xtreme 17.0 - a 24 hour Global Programming Competition for the first time in Nepal</li><li>· Gained a vast resource of experience in communication, teamwork,leadership and financing</li></ul>	Feb. 2023 – Feb. 2024 <i>Lalitpur, Nepal</i>
<b>Social Media Manager</b> <i>IEEE Student Branch, IOE, Pulchowk</i> <ul style="list-style-type: none"><li>· Created written content for Social Media - primarily for Facebook and LinkedIn for an entire year</li><li>· Successfully increased page engagements and audience from around 700 followers to 3.5k+ followers.</li><li>· Wrote and edited official documents including Sponsorship Proposal, Event Guidelines, Invitations and Official Letters</li><li>· Actively took on roles of Emcee and Event Host during 5 events</li></ul>	Feb. 2022 – Feb. 2023 <i>Lalitpur, Nepal</i>
<b>Editorial Committee Member</b> <i>MeroSpace Magazine</i> <ul style="list-style-type: none"><li>· Edited 15+ articles for publishing in the First Edition of MeroSpace Magazine at Pulchowk Campus</li><li>· Evaluated and assessed writings in Article Writing Competition</li></ul>	Jun. 2022 – July. 2023 <i>Lalitpur, Nepal</i>

## REFERENCES

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**Available Upon Request**