

# Ekata Adhikari

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## Professional Summary

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Undergraduate Electrical and Electronics Engineering student with proficiency in Python, SQL, and MATLAB. Experienced in developing and optimizing machine learning models using frameworks like TensorFlow and PyTorch, with a strong focus on deep learning techniques. Skilled in data preprocessing, model evaluation, and performance optimization, with hands-on experience in applying these models to real-world datasets.

## Education

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### Bachelor of Electrical and Electronics Engineering | 2021-2025

Kathmandu University, Dhulikhel

- Relevant Coursework: Signals and Systems| Digital Signal Processing| Microprocessors| Neural Networks| Biomedical Engineering| Electronics Engineering| Network Analysis.

## Skills & Abilities

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- Programming & Tools: Python, SQL, MATLAB
- Machine Learning Frameworks: Scikit-learn, TensorFlow
- Data Analysis & Visualization: Pandas, Data Visualization, Statistical Analysis
- Machine Learning & AI: Neural Networks, Model Optimization, Algorithm Development

## Project

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### Image Resolution Enhancement

- Enhancing low-resolution images using Generative Adversarial Network (GAN) models to generate high-quality visuals.

### Speaker Identification

- Identifying speakers based on voice patterns using CNNs (Convolutional Neural Networks) and RNNs (Recurrent Neural Networks) with LSTMs (Long Short-Term Memory networks) and comparing both models.

### Parkinson Disease Detection

- Classifying Parkinson's disease using Support Vector Machine (SVM) based on voice or movement data

## Leadership

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### Vice President, IEEE KU

- Organized technical workshops, facilitated networking events, and supported innovation initiatives

### Vice President, KU Indoor Club

- Managed indoor sports activities, organized tournaments, and enhanced student participation.