KRITIKA ACHARYA

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EDUCATION

School Leaving Certificate Examination (Grade XI & XII)   June 2020

National Examination Board, Prasadi Academy   CGPA: 3.73

Bachelor's in Computer Engineering

Thapathali Campus, IOE, Tribhuwan University

TECHNICAL SKILLS

- **Programming Languages**: Java, Python, C, C++

- **Frontend Development**: HTML, CSS, Javascript

- **Backend Frameworks**: Flask, Django, MySQL, MongoDB, Node JS

- **Data Science Package**: Pandas, Numpy, sklearn, TensorFlow, Pytorch, Keras

- **Version Control**: Git and GitHub

- **Deep Learning**: CNN, RNN, LSTM, Transformer, Reinforcement Learning, BERT, GPT

ACADEMICS PROJECTS

Database Management System Project
- Title: "*Stock Portfolio Management System*"
- Features: Stock watchlist, holdings, add/remove transactions, portfolio with bar chart visualization & best stock script suggestion to look for based on it's MACD and RSI value
- Technologies used: HTML, CSS, Bootstrap, JS, Node JS, Python(Flask) & MySQL

Minor Project
- Title: "*Medical Image Super Resolution using MedSRGAN*"
- Features: Using generative adversarial networks, high-fidelity augmentation, retention of fine-grained information, and increased diagnostic accuracy are achieved."
- Technologies used: HTML, CSS, Bootstrap, JS, Python & MySQL, ESRGAN pretrained model, Machine Learning

Major Project

- Title: "*AI Enhanced Interview Proctoring and Assessment System (AIPAS)* "
- Features: AI-based video proctoring, real-time behavioral analysis, adaptive question generation using NLP (T5 model) , voice analysis for sentiment detection, fraud detection, and secure data storage.
- Technologies used: HTML, CSS, Bootstrap, JS, Node JS, Python, MySQL, T5 pretrained model

EXPERIENCES

- Developer – IIS Incorporation Pvt. Ltd. (Sep 2024 – Present)
    - Assist in database maintenance and troubleshooting .
    - Worked on optimizing the backend program as per the need.
    - Assisted in data migration of legacy system to new systems

- Microsoft Learn Student Ambassador

ABOUT ME

- **Language**: Nepali, English, Hindi

- **Research Interests**: Development, API Design, Real-time Applications Microservices, Web Sockets, Database Design