NeuralGrader User Guide

Introduction

NeuralGrader is a web-based application designed to simplify the grading of quizzes and assignments by leveraging advanced Large Language Models (LLMs). With a user-friendly interface and robust backend technology, NeuralGrader ensures fast and accurate evaluation of handwritten content, including Python programs, biological diagrams, and circuit designs.

Access here: https://zohair.onrender.com

It might take a minute to load on first try.

Features

1. **Easy Quiz Upload:** Snap a photo of your handwritten quiz or assignment and upload it effortlessly.
2. **Customizable Grading:** Provide specific instructions or prompts to guide the grading process.
3. **Model Selection:** Choose from a curated list of LLMs tailored to your evaluation needs.
4. **Quick Evaluation:** Click "Evaluate" and receive instant, detailed feedback on the submitted content.
5. **Support for Diverse Content:** Capable of analyzing Python programs, diagrams, and more.

How to Use NeuralGrader

Step 1: Access the Web App

1. Open a web browser and navigate to the NeuralGrader URL.

Step 2: Upload the Quiz

1. Click on the "Upload Quiz" button.
2. Choose the file containing the handwritten quiz from your device.
3. Ensure the image is clear and well-lit for optimal evaluation results.

Step 3: Customize the Grading Process

1. Write an optional prompt to provide additional instructions for grading (e.g., "Focus on logic over syntax for Python programs").
2. Leave the field blank if no specific instructions are needed.

Step 4: Select the Desired Model

1. Review the list of available LLMs.
2. Choose a model based on the type of quiz or assignment (e.g., diagrams, code, or theory-based). Default model is gemini-1.5-flash-pro.

Step 5: Evaluate the Quiz

1. Click the "Evaluate" button to start the grading process.
2. Wait a few seconds while the application processes your submission.
3. Download or view the graded assignment with detailed feedback.

Tips for Best Results

1. Ensure uploaded images are of high quality.
2. Use clear handwriting or printed text where possible.
3. Provide concise and specific prompts to tailor the grading.
4. Familiarize yourself with the capabilities of each model to choose the best fit.

Supported Quiz Types

Any kind of handwritten or non-handwritten text.

Note: NeuralGrader only supports pictures for now.

Troubleshooting

1. **Upload Errors:** Ensure the file format is supported (e.g., JPG, JPEG, PNG etc).
2. **Poor Grading Accuracy:** Verify image clarity and try resubmitting with a more specific prompt.
3. **Technical Issues:** Contact support at ansersohaib.study@gmail.com.

Additional Track-Specific Documentation

Applications Track: Enhancing Usability

This application is part of the Applications Track, focusing on delivering a seamless user experience. NeuralGrader's design prioritizes accessibility, adaptability, and performance, catering to educators and students alike. By integrating features like customizable prompts and model selection, users can tailor the application to specific academic needs, ensuring maximum relevance and efficiency.

Contact Us

For further assistance or inquiries, feel free to reach out:

- **Email:** ansersohaib.study@gmail.com
- **Support Hours:** 24/7

Thank you for choosing NeuralGrader. Happy grading!