**Readme for Word Format**

This is a Flask web application for machine learning model deployment. The application allows users to input various parameters related to a machine, such as machine ID, voltage, rotation, pressure, vibration, date, age, and model type, and then predicts the remaining useful life (RUL) of the machine using a pre-trained machine learning model.

The application is built using Python and Flask, a popular web framework in Python, and it uses ngrok for exposing the local development server to the internet for testing and demonstration purposes.

**Installation**

To run this Flask application, you need to follow these steps:

1. Clone the repository to your local machine.
2. Open the command prompt and navigate to the project directory.
3. Install the required dependencies using the following command:

pip install -r requirements\_flask.txt

1. Run the Flask application using the following command:

python Flask\_Deployment.py

1. The Flask application will start running on the localhost, and ngrok will generate a public URL that can be accessed from any device connected to the internet.

**Usage**

Once the Flask application is running, you can access it using the generated public URL. The application consists of the following pages:

* Home page: This is the landing page of the application that displays a welcome message.
* Model page: This page allows users to input various parameters related to a machine, such as machine ID, voltage, rotation, pressure, vibration, date, age, and model type, using a form. Users can submit the form to make a prediction of the remaining useful life (RUL) of the machine.
* Output page: This page displays the prediction of the RUL of the machine based on the input parameters provided by the user.

**Contributing**

If you wish to contribute to this project, you can fork the repository, make your changes, and submit a pull request. Your contributions are welcome and will be reviewed by the project maintainers.

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