Final Output: API Endpoint Details for Testing

The final project includes two key deployment modes to access the email classification and PII masking functionality: a local Flask API and a cloud-based Gradio interface deployed on Hugging Face Spaces.

Flask API Endpoint (Local Testing):

```
URL: http://127.0.0.1:5000/classify
Method: POST
Request Input Format (JSON):
"email_text": "string containing the email"
Response Output Format (JSON):
"input_email_body": "original email text",
    "list_of_masked_entities": [
        {
            "position": [start_index, end_index],
            "classification": "entity_type",
            "entity": "original_entity_value"
        }
        ],
        "masked_email": "masked email text",
        "category_of_the_email": "classified category"
    }
}
```

The local Flask API allows for fast and flexible offline testing and integration into internal systems.

Hugging Face Spaces Deployment (Gradio UI):

• URL: https://huggingface.co/spaces/vinay2001/Email-Classification

Both interfaces adhere to strict API response format requirements, ensuring consistency across environments.