

# REPORT

## PRAGATIENGINEERINGCOLLEGE

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1-378,A.D.B.Road,Surampalem,NearPeddapuram-533437



## “ML WEB APPS UNLEASHED”

**Date:** 25-01-2024.

**Day:** Thursday.

Turing Club organised by the Dept. of CSE – AI&ML of Pragati Engineering College in association with Career Guidance Cell is organizing a seminar on " ML WEB APPS UNLEASHED " as part of Industry 4.0.

**REGISTRATION MADE BY STUDENTS:**

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## TOPICS COVERED IN WEBINAR:



TO Create Web application Django is used as backend

Processing steps to create a project in Django

Creating a Django project involves a series of steps. Django is a popular web framework for building web applications in Python. Here's a step-by-step guide to creating a Django project:

### Prerequisites:

- Python installed on your machine. You can download it from python.org.
- Pip (Python package installer) installed.

### Steps:

1. **Install Django:** Open a command prompt or terminal and run the following command to install Django using pip:  
`bashCopy code`
2. **Create a Django Project:** Once Django is installed, you can create a new project using the following command. Replace "myproject" with the desired name of your project:  
`bashCopy code`

This will create a directory named **myproject** with the initial project structure.

3. **Navigate to the Project Directory:** Change your working directory to the newly created project directory:

```
bashCopy code
```

```
cd
```

4. **Run Migrations:** Django uses migrations to manage database schema changes. Run the following commands to apply the initial migrations:

```
bashCopy code
```

5. **Create a Superuser (Optional):** You can create an admin superuser to manage your Django application. Run the following command and follow the prompts:

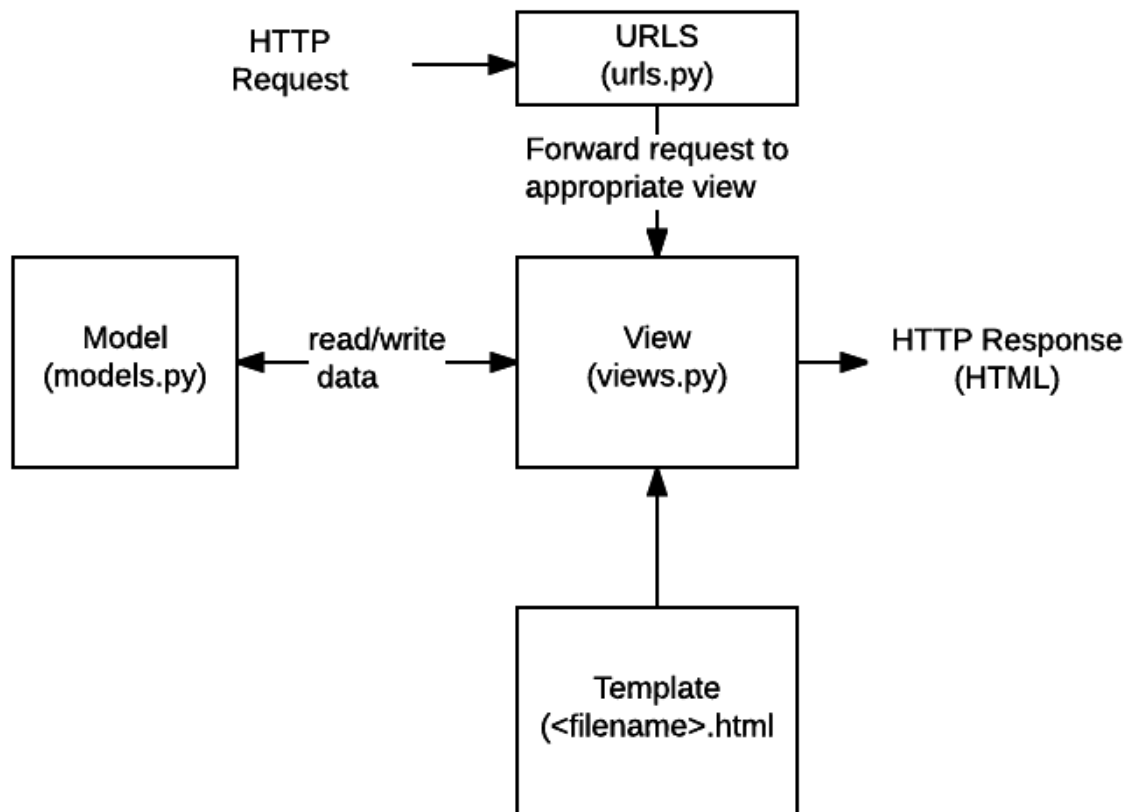
```
bashCopy code
```

6. **Run the Development Server:** Start the Django development server to test your project:

```
bashCopy code
```

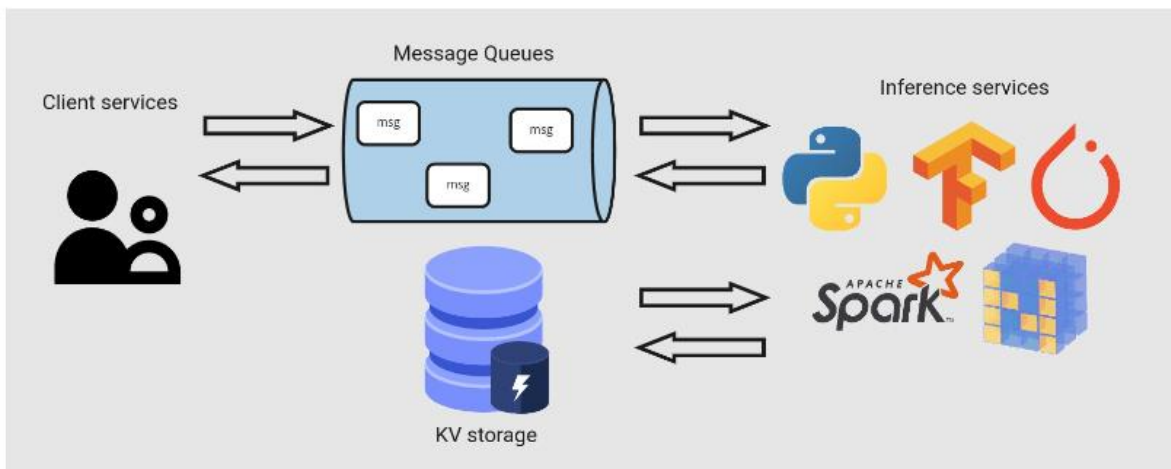
By default, the server will run on **http://127.0.0.1:8000/**.

7. **Access the Admin Interface (Optional):** If you created a superuser, you can access the Django admin interface by navigating to **http://127.0.0.1:8000/admin/** in your browser and logging in with the superuser credentials.



# ml-serving-template

Serving large ml models independently and asynchronously via message queue and kv-storage for communication with other services.



**1: Setting Up Your Environment:** Before we embark on our journey into Django and machine learning, let's ensure our environment is primed for innovation. We'll begin by setting up the essential tools. Python, our versatile companion, will be the cornerstone of our project. Alongside it, we'll utilize Django, an influential high-level Python web framework renowned for its capability in simplifying the development of robust web applications. To maintain order among our dependencies, we'll establish a virtual environment and employ the command-line interface (CLI) to install Django:

```
# Create and activate a virtual environment
python -m venv venv
source venv/bin/activate # On Windows: venv\Scripts\activate
```

```
# Install Django
pip install django
```

**2: Building the Django Web App:** Our journey unfolds with the creation of the infrastructure for our web application, facilitated by Django's comprehensive suite of tools. Guided by the `django-admin` CLI, we initiate our project's core structure and subsequent app modules:

```
# Create a new Django project
django-admin startproject mlwebapp

# Navigate into the project directory
cd mlwebapp
# Create a new Django app
python manage.py startapp prediction
```

**3: Integrating Machine Learning:** Our exploration enters an exhilarating phase as we merge the world of machine learning into our Django-powered web application. For our illustration, let's envision a scenario where we construct a sentiment analysis tool leveraging Natural Language Processing (NLP). Sentiment analysis, a prominent application of machine learning, involves interpreting emotional sentiment from textual data.

**3.1 Creating the Machine Learning Model:** The foundation of our sentiment analysis journey is the machine learning model itself. We choose a machine learning library — such as `scikit-learn` or `TensorFlow` — and with the aid of labeled data, train the model to distinguish sentiments, be they positive, negative, or neutral. Once trained, the model is saved to a file for later use.

**3.2 Django View for Prediction:** Within the `prediction` app in Django, we craft a view that handles user input, processes it through our trained sentiment analysis model, and yields the predicted sentiment. Here's a simplified example that uses `scikit-learn`:

```

# prediction/views.py
from django.shortcuts import render
from sklearn.externals import joblib

def predict_sentiment(request):
    if request.method == 'POST':
        text = request.POST.get('text')
        model = joblib.load('path_to_your_model.pkl')
        sentiment = model.predict([text])[0]
        return render(request, 'prediction/result.html', {'sentiment': sentiment})
    return render(request, 'prediction/predict.html')

```

**4: User Interface:** No web application is complete without an interface that harmonizes with users. Django's template system empowers us to design interfaces that are responsive and engaging.

**4.1 Input Form:** Within `prediction/templates/prediction/predict.html`, we sculpt a form that beckons users to contribute text for sentiment analysis:

```

<!-- prediction/templates/prediction/predict.html -->
<form method="post">
    {% csrf_token %}
    <textarea name="text" rows="4" cols="50"></textarea>
    <button type="submit">Predict</button>
</form>

```

**4.2 Result Display:** In `prediction/templates/prediction/result.html`, the fruits of sentiment analysis are displayed:

```
<!-- prediction/templates/prediction/result.html -->
<h2>Predicted Sentiment: {{ sentiment }}</h2>
```

**5: Routing and URLs:** Navigational paths within our Django project are orchestrated by URLs.

These paths connect users to different components of our application:

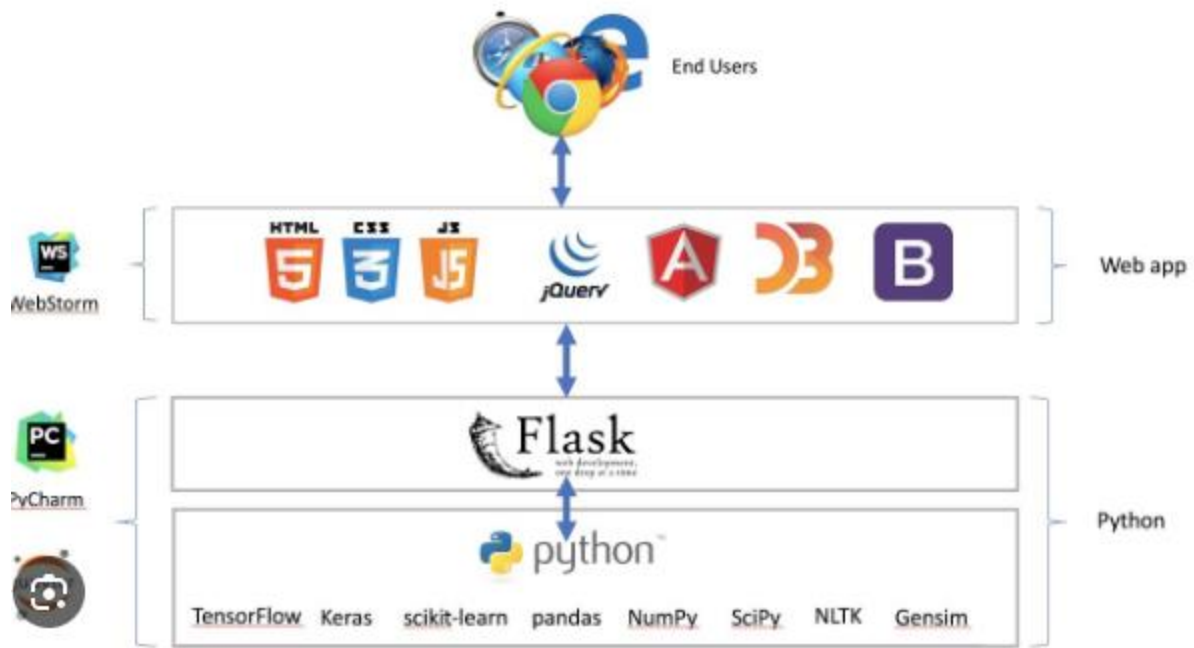
```
# mlwebapp/urls.py
from django.contrib import admin
from django.urls import path, include

urlpatterns = [
    path('admin/', admin.site.urls),
    path('prediction/', include('prediction.urls')), # Add this line
]
```

**6: Running the Web App:** With our application's mechanics orchestrated, it's time to witness our creation in action. The Django development server graciously hosts this revelation:

<https://medium.com/saarthi-ai/deploying-a-machine-learning-model-using-django-part-1-6c7de05c8d7>

<https://www.youtube.com/watch?v=UQVyhKFJuH8>



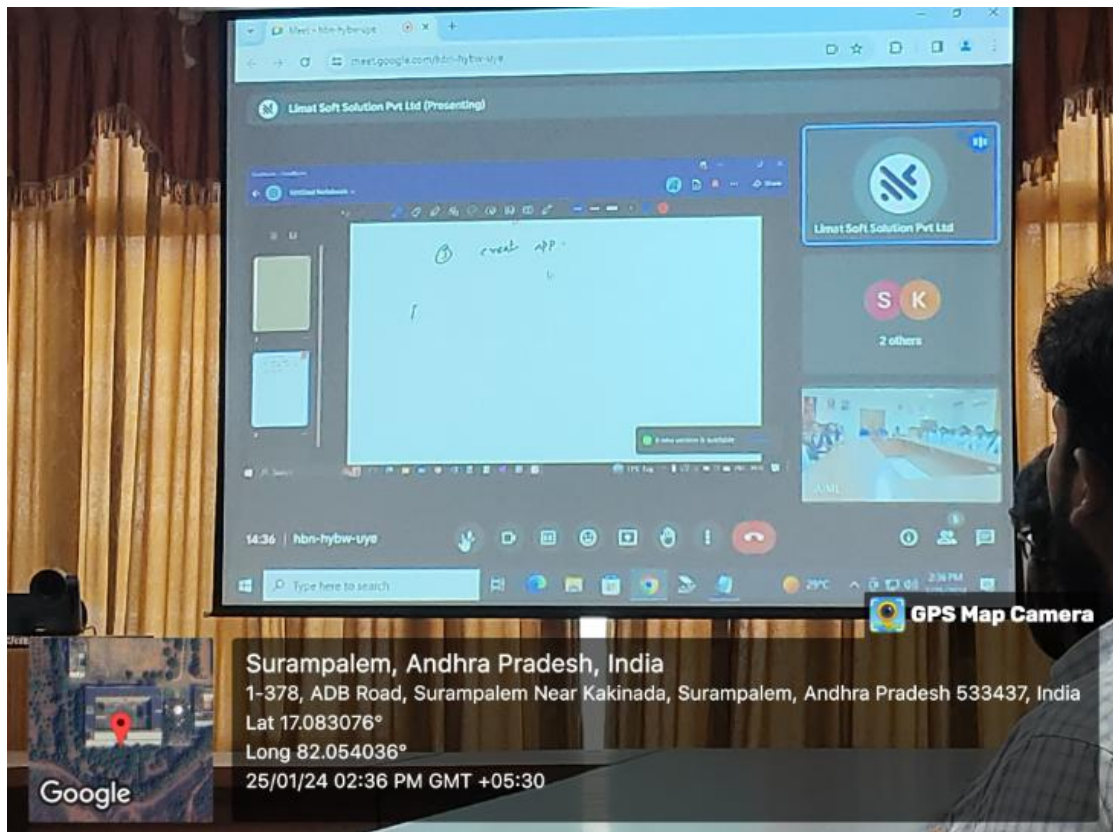
# Presentation on ML Web Apps

Photos:












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## TURING CLUB

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# ML Web Apps Unleashed

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25-01-2024

1:30PM-3:30PM

**@Conference Hall - PEC**



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