

Advanced Python Programming

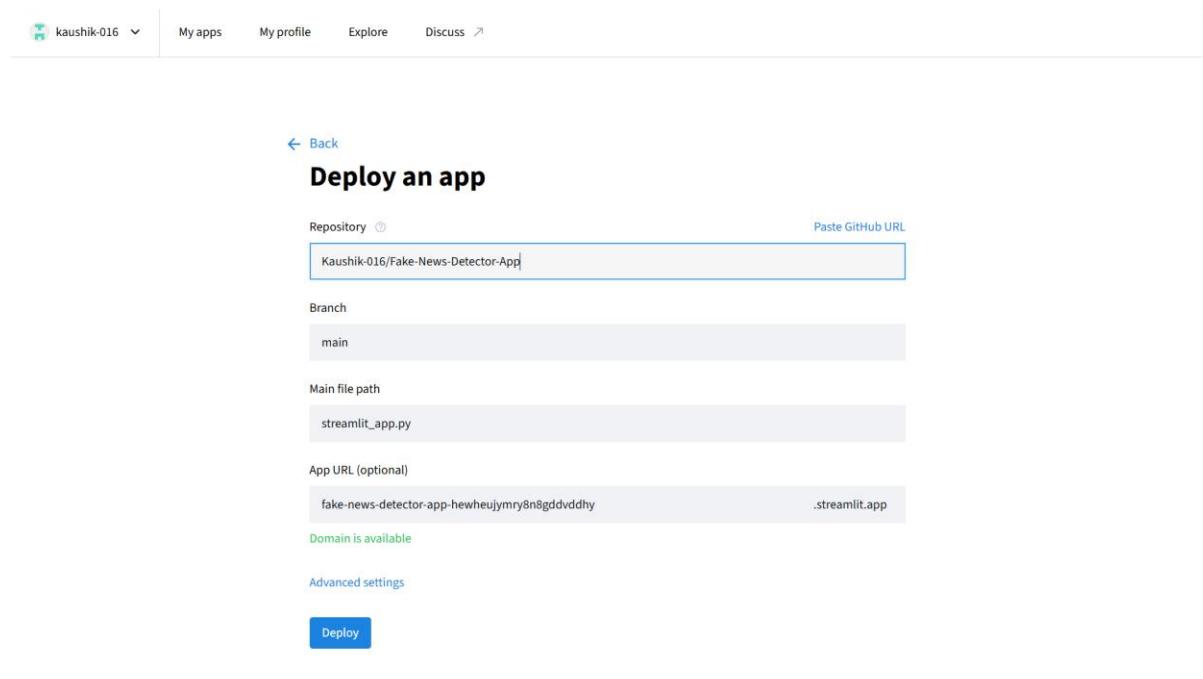
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Web Deployment

Streamlit is an open-source Python framework that makes it easy to build and deploy interactive web applications for data science and machine learning. With minimal code, it converts Python scripts into user-friendly dashboards, eliminating the need for traditional web development. Streamlit supports components like charts, forms, and media, and integrates well with popular ML libraries. It is widely used for prototyping, visualization, and deploying real-time AI models quickly and efficiently.

Deployment steps:

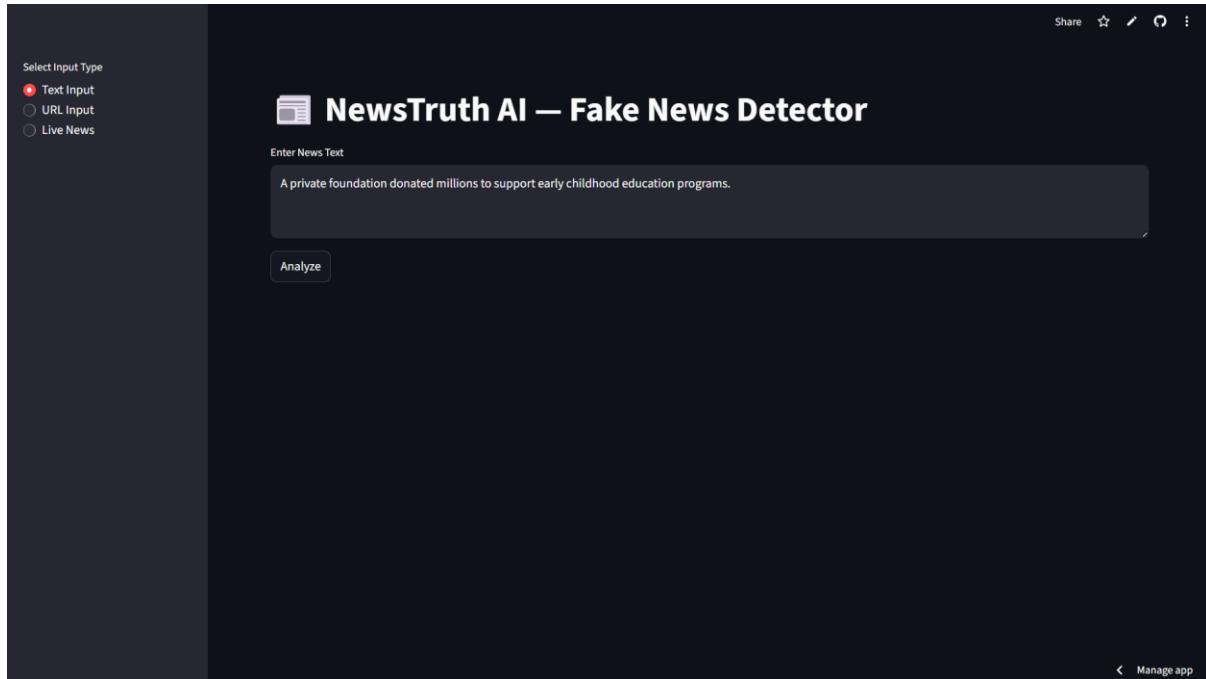


The screenshot shows the Streamlit deployment interface. At the top, there's a navigation bar with 'kaushik-016' (dropdown), 'My apps', 'My profile', 'Explore', and 'Discuss'. Below this is a 'Deploy an app' form. The 'Repository' field contains 'Kaushik-016/Fake-News-Detector-App'. The 'Branch' field contains 'main'. The 'Main file path' field contains 'streamlit_app.py'. Under 'App URL (optional)', there are two fields: 'fake-news-detector-app-hewheujymry8n8gddvddhy' and '.streamlit.app'. A green message 'Domain is available' is displayed next to the second field. There's also an 'Advanced settings' link and a prominent blue 'Deploy' button at the bottom.

Workspace in StreamLit:

A screenshot of the Visual Studio Code interface. The left sidebar shows a file tree for a project named "FAKE-NEWS-DETECTOR-APP (CODESPACES: FLUFFY)". The main editor area displays the "streamlit_app.py" file, which contains Python code for a StreamLit application. The code imports StreamLit, joblib, os, re, langdetect, googletrans, newspaper, requests, and defines functions for loading models and running the app. The terminal tab shows a command-line session where the user runs "streamlit run streamlit_app.py --server.enableCors false --server.enableSsrProtection false". The bottom status bar indicates the session is on a "Codespace".

Final Deployment:



Link:

<https://fake-news-detector-app-hewheujymry8n8gddvddhy.streamlit.app/>