Marathwada Mitra Mandal's, College of Engineering, Karvenagar, Pune
Accredited with 'A' Grade by NAAC;Recipient of " Best College Award 2019" by
SPPU

Cloud Computing
(Lab Practice 4)

Mini Project
On

Vehicle Insurance Prediction using Heroku

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Problem Statement:

Host a website using PaaS hosting. Setup your own cloud for Software as a Service over existing LAN in your laboratory. Use various tools and plugins provided by the service provider to build your project.

Introduction:

Cross-selling identifies products or services that satisfy additional, complementary needs that are unfulfilled by the original product that a customer possesses. As an example, a mouse could be cross-sold to a customer purchasing a keyboard. Oftentimes, cross-selling points users to products they would have purchased anyways; by showing them at the right time, a store ensures they make the sale.

Cross-selling is prevalent in various domains and industries including banks. For example, credit cards are cross-sold to people registering a savings account. In ecommerce, cross-selling is often utilized on product pages, during the checkout process, and in lifecycle campaigns. It is a highly-effective tactic for generating repeat purchases, demonstrating the breadth of a catalog to customers.Cross-selling

can alert users to products they didn't previously know you offered, further earning their confidence as the best retailer to satisfy a particular need.
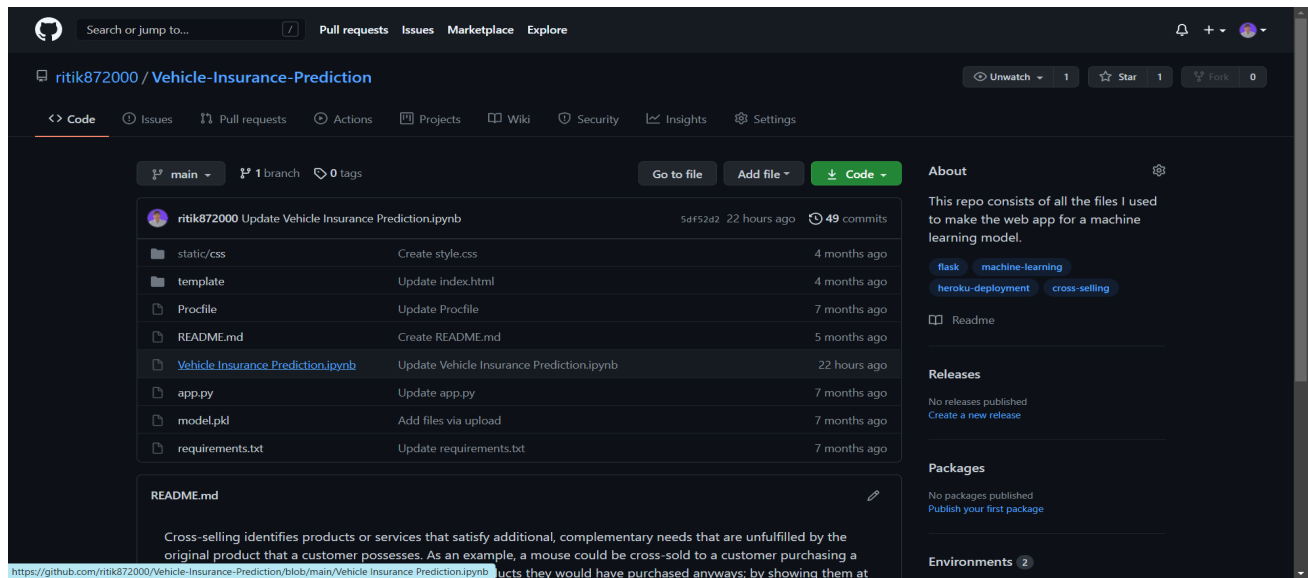
Hardware Requirements:

- 4 GB Ram
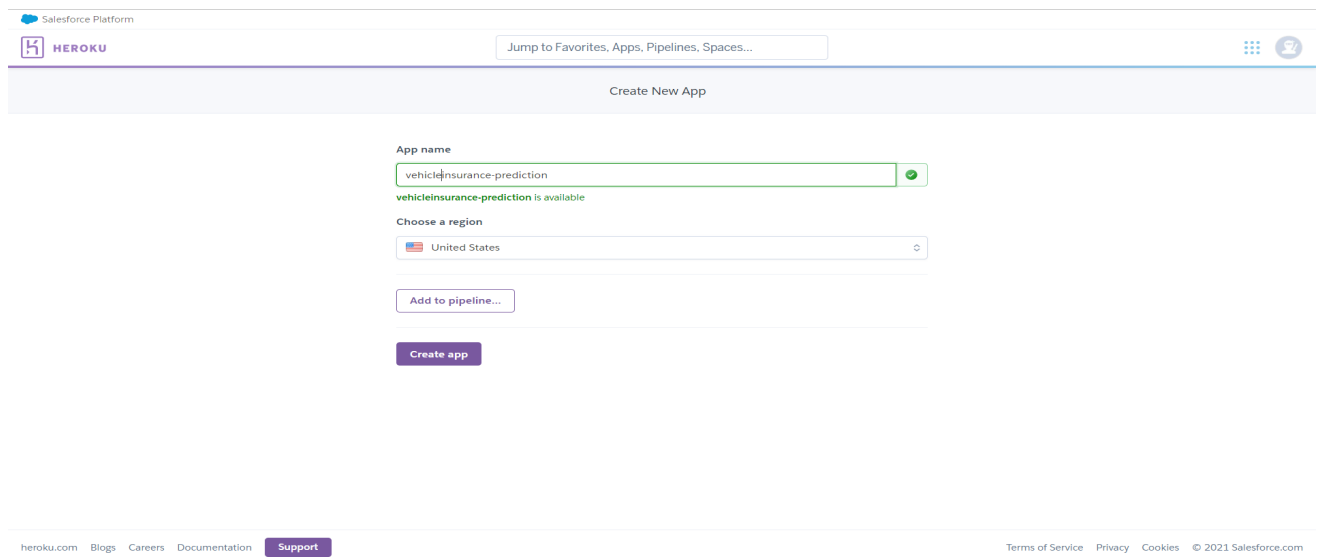- Personal computer
- Windows 10

Software Requirements:

- Flask==1.1.2
- gunicorn==20.0.4
- Jinja2==2.11.2
- numpy==1.18.5
- itsdangerous==1.1.0
- MarkupSafe==1.1.1
- Werkzeug==0.15.5
- scipy>=0.15.1
- scikit-learn>=0.18
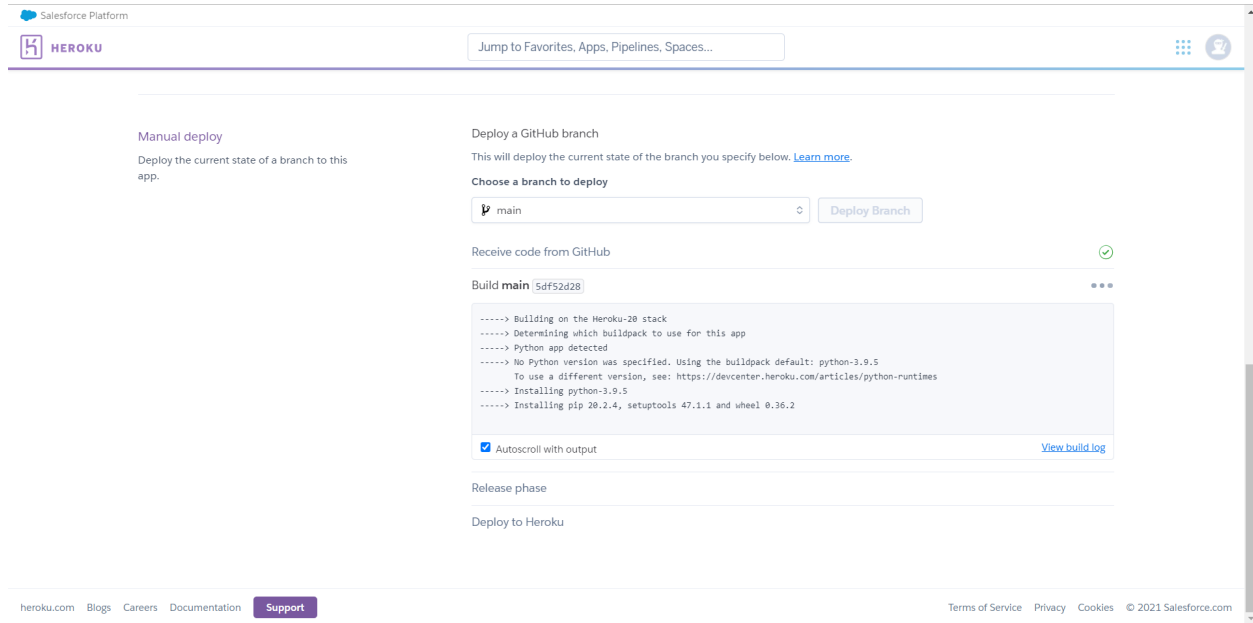- matplotlib>=1.4.3
- pandas>=0.19

Methodology:

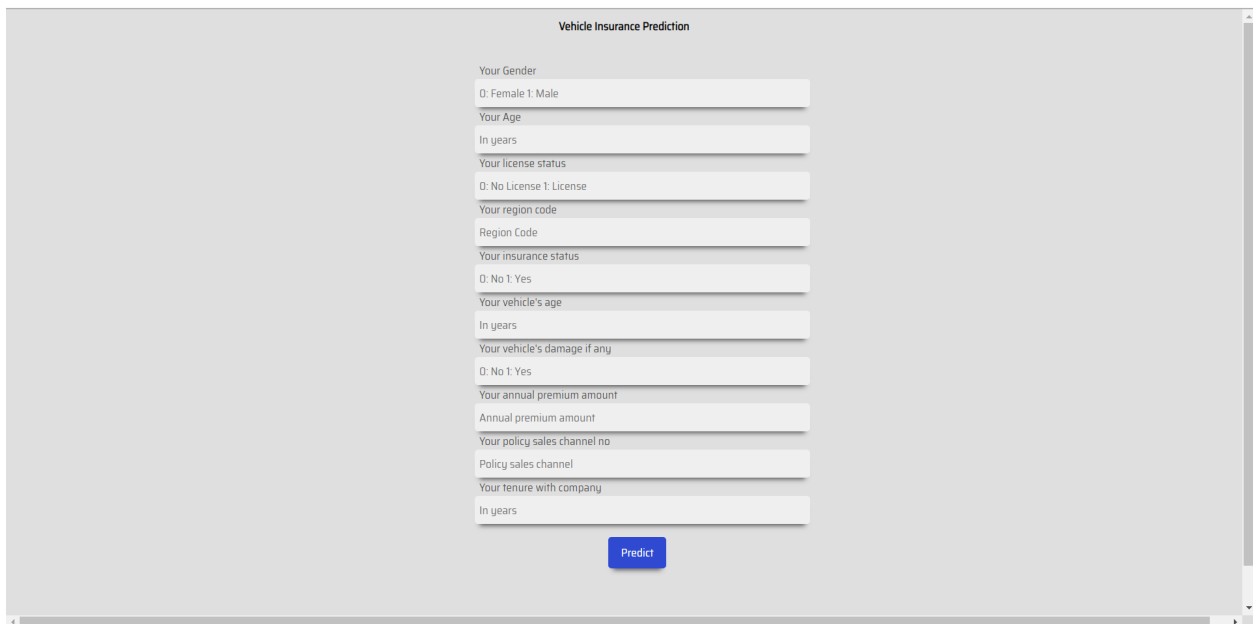**Step 1:** We need to put all the files of project into a github repo.

Step 2: Open heroku, Set the app name

Step 3: Go ahead and connect the github repo to heroku.

Step 4: After configuring the github the app will get compiled and finally we can see it on the url : https://vehicle-insurance-prediction.herokuapp.com/

Application:

- Heroku is already well known for providing an excellent hosting environment for the most popular open source applications like Joomla, Mambo, osCommerce, WordPress and many more.
- Besides the stable server environment ensured at heroku, the company also offers professional technical support and lots of free resources for the users.
- Insurance prediction will enhance the fluidity in the process.

Advantages:

- Free SHA256 Encryption.
- Continuous Integration(CI)/Continuous(CD) Deployment option.
- Easy to use, maintain and Deploy.

Disadvantages:

- Standard(free plan) storage limit is 64 GB
- It is paid.

Results: For some input values the app predicts "OOPS! User won't buy the insurance"

Vehicle Insurance Prediction

Your Gender
0: Female 1: Male

Your Age
In years

Your license status
0: No License 1: License

Your region code
Region Code

Your insurance status
0: No 1: Yes

Your vehicle's age
In years

Your vehicle's damage if any
0: No 1: Yes

Your annual premium amount
Annual premium amount

Your policy sales channel no
Policy sales channel

Your tenure with company
In years

Predict

Prediction: OOPS! User wont buy the insurance

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Conclusion:

- Thus we conclude that we successfully hosted an interactive website with the help of Heroku.