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<html>
  <head>
    <meta charset="utf-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1">

    <link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.5/css/bootstrap.min.css"
integrity="sha512-
dTfge/zgoMYpP7QbHy4gWMEGsbdsZeCXz7irItjcC3sPUFtf0kuFbDz/ixG7ArTxDmDzHubeNi
kyKGVyQ==" crossorigin="anonymous">
    <title>Charleston Housing Analysis and Predictions</title>
  </head>
  <body>
    <nav class="navbar navbar-inverse">
      <div class="container">
        <div class="navbar-header">
          <button type="button" class="navbar-toggle collapsed" data-toggle="collapse" data-
target="#navbar" aria-expanded="false" aria-controls="navbar">
            <span class="sr-only">Toggle navigation</span>
            <span class="icon-bar"></span>
            <span class="icon-bar"></span>
            <span class="icon-bar"></span>
          </button>
          <a class="navbar-brand"
href="http://mailman82.pythonanywhere.com/">Charleston Housing Analysis and
Predictions</a>
        </div>
      </div>
    </nav>
  </body>
</body>
  <h2>The Regression Analysis</h2>
  <h3> Start with base Linear Regression of the data split into training and testing sets:</h3>
  
  <p> The results of this regression are: </p>
  <p>R^2 Value: {{ linreg_r2 }}</p>
  <p>Coefficient: </p>
  <p>
    {{ linreg_co | safe }}
  </p>
  <h4> {{ linstatename }} </h4>
  <br>

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<br>
<p>R^2 Value: {{ regul_r2 }}</p>
<br>
<p> {{ regstate }}</p>
<p> Below is the performance of the 5 folds: </p>

<br>
<p> Here is the results of the coefficients from the cross-validation of the dataset using the
alpha value ({{alpha}}) found through optimizing the regularization:</p>
<p>
    {{ regcoe | safe }}
</p>
<h3>Finally, the grid search cross-validation is performed for the dataset as another
validation:</h3>
<p> The Grid Score is: {{gridsc}} </p>
<p> The Grid Estimator is: {{gridest}} </p>
<h4> {{result}} </h4>
</body>
</html>
```