SPIRNT-4

TEAM ID	PNT2022TMID17480
Project Title	Early Detection Of Chronic
	Kidney Disease Using Machine
	Learning

```
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 "execution_count": 1,
 "metadata": {},
 "outputs": [],
 "source": [
  "import pickle\n",
  "loaded_class = pickle. load(open('randomclass_chronic',
'rb'))\n'',
  "loaded_reg = pickle. load(open('randomreg_chronic',
'rb'))"
 ]
 },
```

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 "import numpy as np\n"
]
},
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"execution_count": 3,
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"source": [
 "import pandas as pd"
]
},
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"execution_count": null,
"metadata": {},
"outputs": [
```

```
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  "text": [
   " * Serving Flask app \"__main__\" (lazy loading)\n",
   " * Environment: production\n",
     WARNING: This is a development server. Do not use
it in a production deployment.\n",
     Use a production WSGI server instead.\n",
   " * Debug mode: off\n"
  1
  },
  {
  "name": "stderr",
  "output_type": "stream",
  "text": [
   " * Running on http://127.0.0.1:5000/ (Press CTRL+C to
quit)\n'',
   "127.0.0.1 - - [03/Nov/2022 00:07:59] \"\u001b[37mGET /
HTTP/1.1\u001b[0m\" 200 -\n",
   "C:\\Users\\Sinegalatha\\anaconda3\\lib\\site-
packages\\sklearn\\base.py:450: UserWarning: X does not
```

have valid feature names, but RandomForestClassifier was fitted with feature names\n'',

```
" warnings.warn(\n",
   "C:\\Users\\Sinegalatha\\anaconda3\\lib\\site-
packages\\sklearn\\base.py:450: UserWarning: X does not
have valid feature names, but RandomForestRegressor was
fitted with feature names\n",
   " warnings.warn(\n",
   "127.0.0.1 - - [03/Nov/2022 00:09:40] \"\u001b[37mPOST
/val HTTP/1.1\u001b[0m\" 200 -\n"
  1
  },
   "name": "stdout",
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  "text": [
   "['48', '70', '1', '4', '0', 0, 1, 1, 0, '117', '56', '4', '111', '3',
'11', '32', '6700', '4', 1, 0, 0, 0, 1, 1]\n"
  1
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  "name": "stderr",
   "output type": "stream",
```

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"text": [
   "127.0.0.1 - - [03/Nov/2022 00:09:47] \"\u001b[37mGET /
HTTP/1.1\u001b[0m\" 200 -\n",
   "C:\\Users\\Sinegalatha\\anaconda3\\lib\\site-
packages\\sklearn\\base.py:450: UserWarning: X does not
have valid feature names, but RandomForestClassifier was
fitted with feature names\n",
   " warnings.warn(\n",
   "C:\\Users\\Sinegalatha\\anaconda3\\lib\\site-
packages\\sklearn\\base.py:450: UserWarning: X does not
have valid feature names, but RandomForestRegressor was
fitted with feature names\n".
   " warnings.warn(\n",
   "127.0.0.1 - - [03/Nov/2022 00:11:12] \"\u001b[37mPOST
/val HTTP/1.1\u001b[0m\" 200 -\n"
  1
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'16', '53', '6800', '6', 0, 0, 0, 1, 0, 0]\n"
```

```
}
 ],
  "source": [
  "from flask import Flask, request, redirect,
render_template\n",
  "app = Flask(\underline{name})\n",
  "@app.route(\"/\",methods=['GET', 'POST'])\n",
  "def index():\n",
      return render_template('index.html')\n'',
  "@app.route(\"/val\",methods=['POST'])\n",
  "\n",
  "def val():\n",
  ••
      test=[]\n'',
  ••
      if request.method == 'POST':\n'',
  ••
        test.append(request.form.get(\"age\"))\n",
  ••
        test.append(request.form.get(\"bp\"))\n",
  ••
        test.append(request.form.get(\"sg\"))\n",
  • •
        test.append(request.form.get(\''al\''))\n'',
  ••
        test.append(request.form.get(\"su\"))\n",
  ••
        rb=request.form.get(\"rbc\")\n",
  ••
        if rb=='abnormal':\n'',
  ••
           test.append(1)\n'',
```

```
••
      else:\n'',
••
        test.append(0)\n'',
••
      pc=request.form.get(\"pc\")\n",
••
      if pc=='abnormal':\n'',
        test.append(1)\n'',
••
••
      else:\n'',
••
        test.append(0)\n'',
••
      pcc=request.form.get(\''pcc\'')\n'',
••
      if pcc=='present':\n'',
••
        test.append(1)\n'',
••
      else:\n'',
••
        test.append(0)\n'',
••
      ba=request.form.get(\"ba\")\n",
••
      if ba=='present':\n'',
••
        test.append(1)\n'',
••
      else:\n",
        test.append(0)\n'',
••
••
      test.append(request.form.get(\"bgr\"))\n",
••
      test.append(request.form.get(\"bu\"))\n",
••
      test.append(request.form.get(\"sc\"))\n",
••
      test.append(request.form.get(\"sod\"))\n",
••
      test.append(request.form.get(\"pot\"))\n",
```

```
••
      test.append(request.form.get(\''hemo\''))\n'',
••
      test.append(request.form.get(\"pcv\"))\n",
••
      test.append(request.form.get(\"wc\"))\n",
••
      test.append(request.form.get(\"rc\"))\n",
••
      ht=request.form.get(\''htn\\'')\n\'',
••
      if ht=='yes':\n'',
••
         test.append(1)\n'',
••
      else:\n'',
         test.append(0)\n'',
••
••
      d=request.form.get(\''dm\'')\n'',
••
      if d=='yes':\n'',
••
         test.append(1)\n'',
••
      else:\n'',
••
         test.append(0)\n'',
••
      ca=request.form.get(\"cad\")\n",
••
      if ca=='yes':\n'',
••
         test.append(1)\n'',
••
      else:\n''.
••
         test.append(0)\n'',
••
      ap=request.form.get(\"appet\")\n",
••
      if ap=='good':\n'',
••
         test.append(1)\n",
```

```
••
      elif ap=='poor':\n'',
••
         test.append(0)\n'',
••
      else:\n'',
••
         test.append(np.nan)\n",
      p=request.form.get(\"pe\")\n",
••
••
      if p=='yes':\n'',
••
         test.append(1)\n'',
••
      else:\n'',
         test.append(0)\n'',
••
••
      an=request.form.get(\''ane\'')\n'',
••
      if an=='yes':\n'',
••
         test.append(1)\n'',
•
      else:\n'',
••
         test.append(0)\n'',
••
   print(test)\n",
•
   test_df=pd.DataFrame(test)\n'',
•
   test_df=np.array(test_df).reshape(1, -1)\n'',
•
   \n'',
•
   ans1=loaded_class.predict(test_df)\n'',
   ans2=loaded_reg.predict(test_df)\n'',
•
•
   if int(ans1)==1:\n'',
```

```
answer1=\"Sorry to say!! You have CHRONIC
DISEASE!!!\"\n",
       return
render_template('rename.html',answer1=answer1,answer2=
ans2)\n'',
     else:\n'',
  11
       answer1=\"Happy to say that you don't have
CHRONIC DISEASE\"\n",
  "\n",
       return
render_template('rename2.html',answer1=answer1,answer2
=ans2)\n''
  " \n",
  "if __name__ == \"__main__\":\n",
     app.debug=True\n'',
  11
     app.run(debug=False)"
 1
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 "metadata": {},
 "outputs": [],
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```
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  "version": 3
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    "pygments_lexer": "ipython3",
    "version": "3.8.3"
    }
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