***Title: -***  *‘****‘Adult Census Income”***

***Acknowledgement: -***  In This Project, we will predict whether income is 50000/year on less than 50000/year based on Census Data.

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***Abstract: -***

This Report Describe:

* Working of the Project?
* How this will be used in the future?
* Our project calculates the accuracy of census data of people according to their salary.

***Introduction: -***

This project ‘Adult Census Income’ calculates the accuracy of people salary, which one is less than 50,000 and which one is greater than 50,000 which depends solely upon user Inputs. In this Course, we have learnt about Artificial Intelligence so, we were Interested in developing such system.

***Problem Definition: -***

On the bases of some information income of every individual is going to be calculated in our project this predict that a per having the specific info his or her salary should be greater than 50 or less than 50 if actual salary is increased 50 and info does not match the criteria it mean there is an extra work he or she does.

***Literature Review: -***

This type of project has been implemented in USA to detect the salary of their citizen on the bases of their qualification we have taken this dataset from kaggle which mean this data has been implemented as a test and shown 80 % accuracy

***Proposed Work: -***

The project is developed by three members Rashid Rahim, Mustansir Abbasi and Ayaz Qureshi three of us contributed almost equally , finding the data arranging it in organized form has been done by Ayaz Qureshi, Rashid Rahim has created the model slices the data performed training and testing, Mustansir Abbasi Tested the project wrote the user data in exel to show testing prediction and design the Django site and converted the project In dJango, other information collection and report writing has been done equally by three of us.

**Q. Why we chose this Project?**

This project was chosen because in this project, according to the Dataset, this data was extracted from the 1994 Census bureau database by Ronny Kohavi and Barry Becker (Data Mining and Visualization, Silicon Graphics). A set of reasonably clean records was extracted using the following conditions:

* ((AAGE>16) && (AGI>100) && (AFNLWGT>1) && (HRSWK>0)).
* The prediction task is to determine whether a person makes over 50000 per year.

***Project Architecture: -***

Project is developed as an artificial intelligence neural network base (ANN).

Dataset is from kaggle and imported into project by using numpy library of python

Activation fuction relu and sigmoid applied

Optimizer adam

Slicing function for data arrangement are used

Trained the data with whole dataset and testing is performed by user input

Accuracy and result of prediction is shown in the result.

***Details of Work: -***

*In Our Project, we take the Some Following Values From User:*

* *Age*
* *Work Class (Private, Self-emp-not-inc, Self-emp-inc, Federal-gov, Local-gov, State-gov, Without-pay, Never-worked)*
* *Final Weight (continuous)*
* *Qualification (Bachelors, Some-college, 11th, HS-grad, Prof-school, Assoc-acdm, Assoc-voc, 9th, 7th-8th, 12th, Masters, 1st-4th, 10th, Doctorate, 5th-6th, Preschool)*
* *Education Class No. (continuous)*
* *Marital Status (Married-civ-spouse, Divorced, Never-married, Separated, Widowed, Married-spouse-absent, Married-AF-spouse)*
* *Occupation (Tech-support, Craft-repair, Other-service, Sales, Exec-managerial, Prof-specialty, Handlers-cleaners, Machine-op-inspct, Adm-clerical, Farming-fishing, Transport-moving, Priv-house-serv, Protective-serv, Armed-Forces)*
* *Relationship (Wife, Own-child, Husband, Not-in-family, Other-relative, Unmarried*
* ***Race****: White, Asian-Pac-Islander, Amer-Indian-Eskimo, Other, Black)*
* *Gender (Female, Male)*
* *Capital Gain (continuous)*
* *Capital Loss (continuous)*
* *HPR (Hour Per Work)*
* *Native Country (United-States, Cambodia, England, Puerto-Rico, Canada, Germany, Outlying-US(Guam-USVI-etc), India, Japan, Greece, South, China, Cuba, Iran, Honduras, Philippines, Italy, Poland, Jamaica, Vietnam, Mexico, Portugal, Ireland, France, Dominican-Republic, Laos, Ecuador, Taiwan, Haiti, Columbia, Hungary, Guatemala, Nicaragua, Scotland, Thailand, Yugoslavia, El-Salvador, Trinadad &Tobago, Peru, Hong, Holand-Netherlands)*

Due to these values, prediction will be made about the salary that can be greater than 50,000 or less than 50,000 according to user Input data*.*

***Experiments: -***

***Result: -***

*In Our Project, those who exceeds up to 50k initialize with ‘1’ and those who less than 50k income initialize with ‘0’ in our dataset. Now, For That we will try to predict the accuracy the income is almost greater than 70 % or good accuracy we want.*

***Discussion: -***

In Our Project, Read The Dataset, and to explore the Probabilities who earn more than 50k and who Is Less than 50k.

***Conclusion:-***

Our Project is to really contribute the Class of income. Check Predict whether income Exceeds Upto 50K based on Census Data.