



Detection of Anomaly in OFW Recruitment Posts thru Artificial Neural Network

ABOUT THE SOLUTION

DARNA studies Facebook OFW recruitment posts and tags them as **low risk** or **high risk**.

For it to work, the FB post is copied and pasted to the DARNA website. DARNA shows whether it is low risk or high risk. If high risk, DARNA shows possible reasons why it possibly came from an illegal recruiter. It shall also show the DMW website to link the user to legitimate job postings.

MODEL DEVELOPMENT

The dataset was obtained from the combined job postings from FB groups and the DMW website. DMW website entries are automatically tagged as low risk. If the data came from FB, it was further validated on the DMW website whether the posting agency is legitimate, then it is tagged as low risk. Otherwise, all posts are tagged as high risk.

A combined NLP and Neural Network was used to develop the model. Around 360 data was used to train the model, with 50% of each tagged as low risk and high risk.

The model shows 88% accuracy.

FUTURE DEVELOPMENTS

DARNA shall extract insights on what are the usual targets of illegal recruitment, such as gender, age group, and job requirement.

High-risk job posts can be submitted to DMW or concerned agencies for easier investigation.

Lastly, DARNA shall be integrated to Facebook, which must be accessed even through free data.