

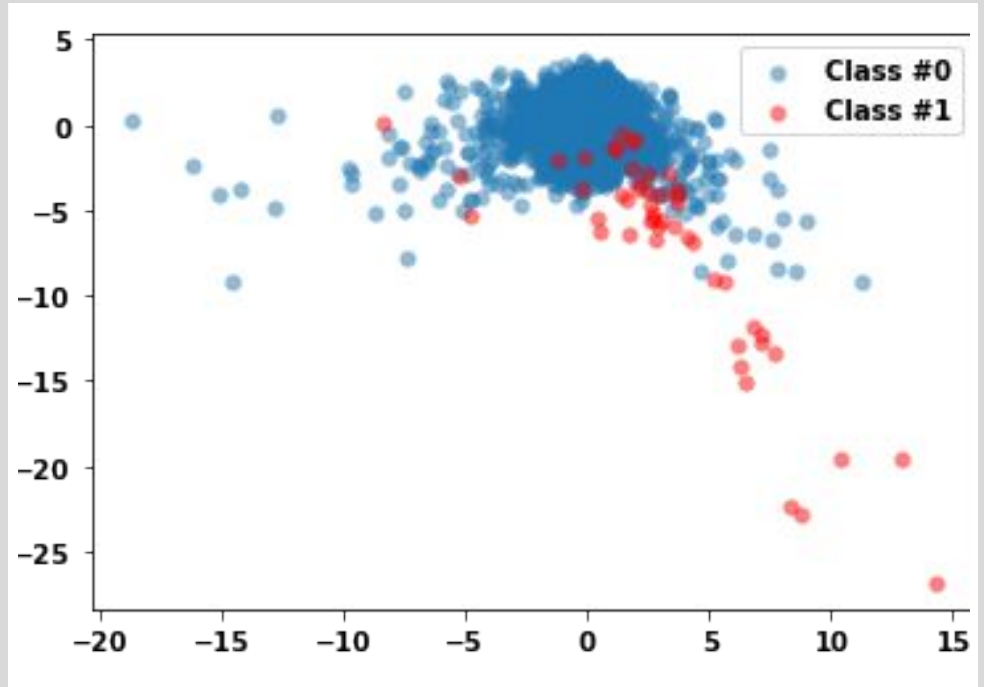


The illustration shows a man with black hair and glasses, wearing a light green t-shirt, sitting at a desk. He is looking at a computer monitor with a surprised expression. On the desk is a white mug. Behind him are two computer monitors displaying blue screens with red horizontal bars and yellow warning triangles. A third warning triangle is floating in the air between the man and the monitors.

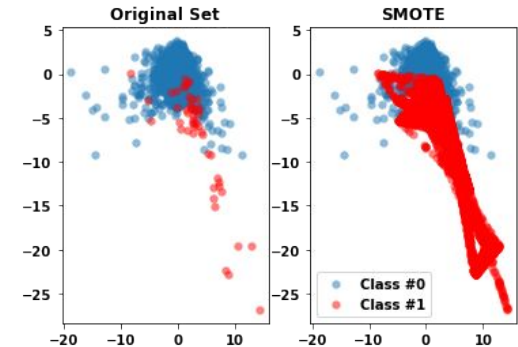
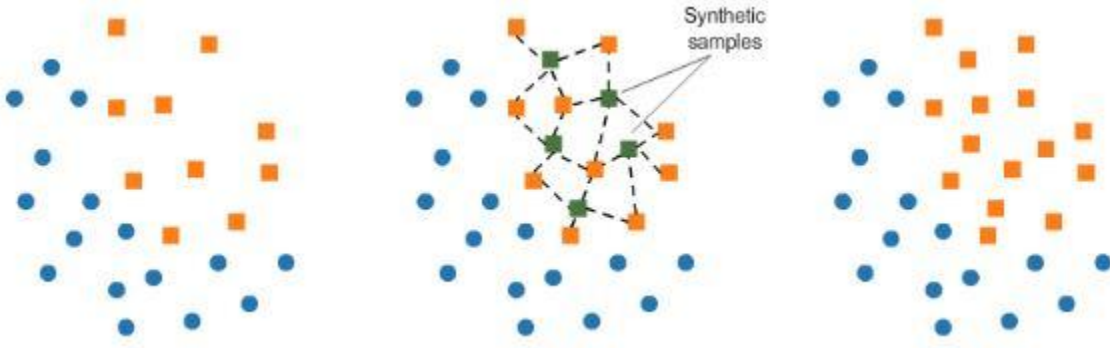
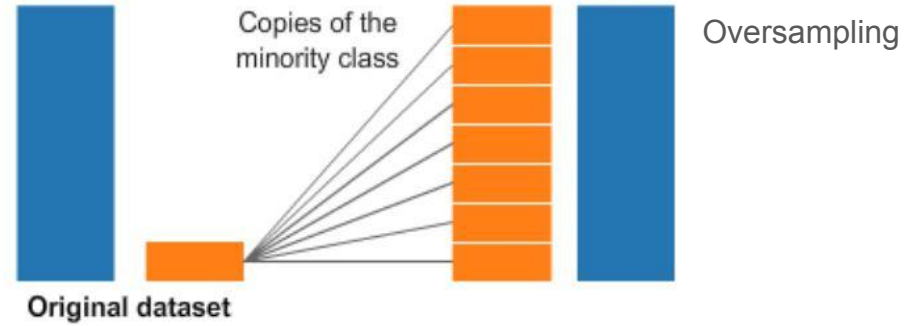
FRAUD DETECTION



What is fraud
detection?

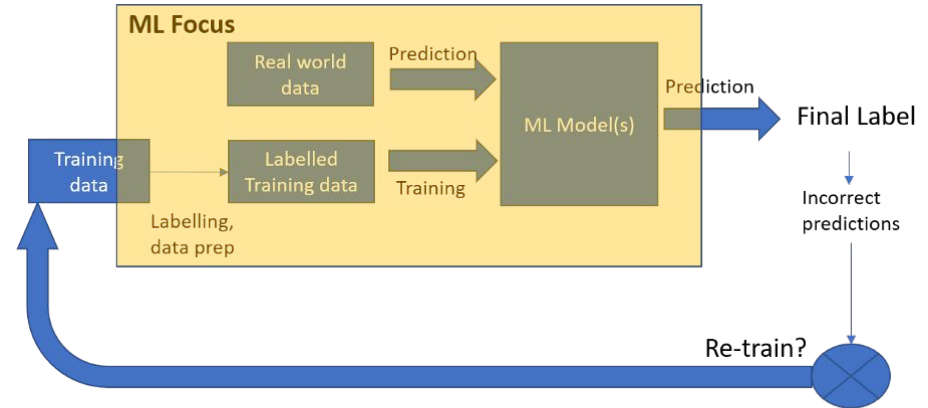
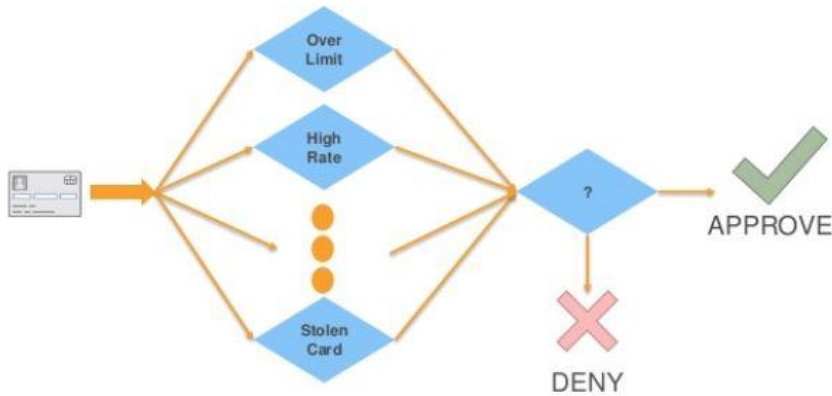


Resampling methods



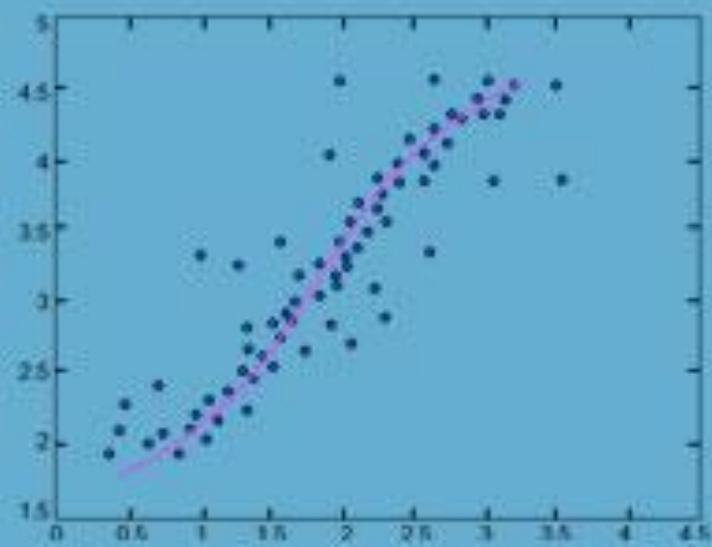
SMOTE

Rule Based Systems or ML Systems



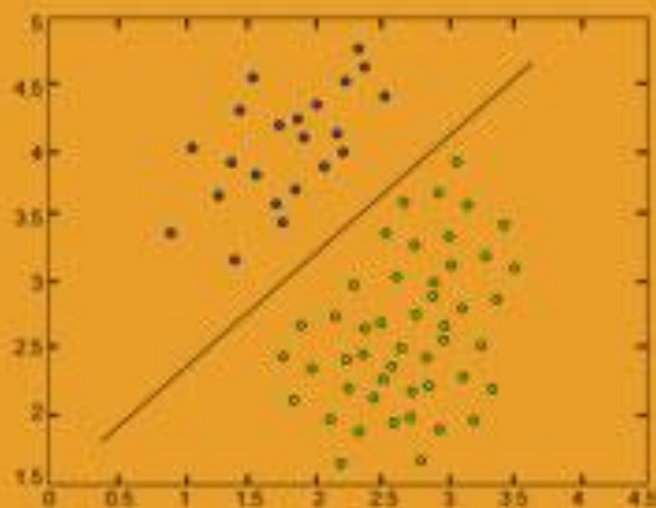
Fraud Detection with Labelled Data





Regression

vs

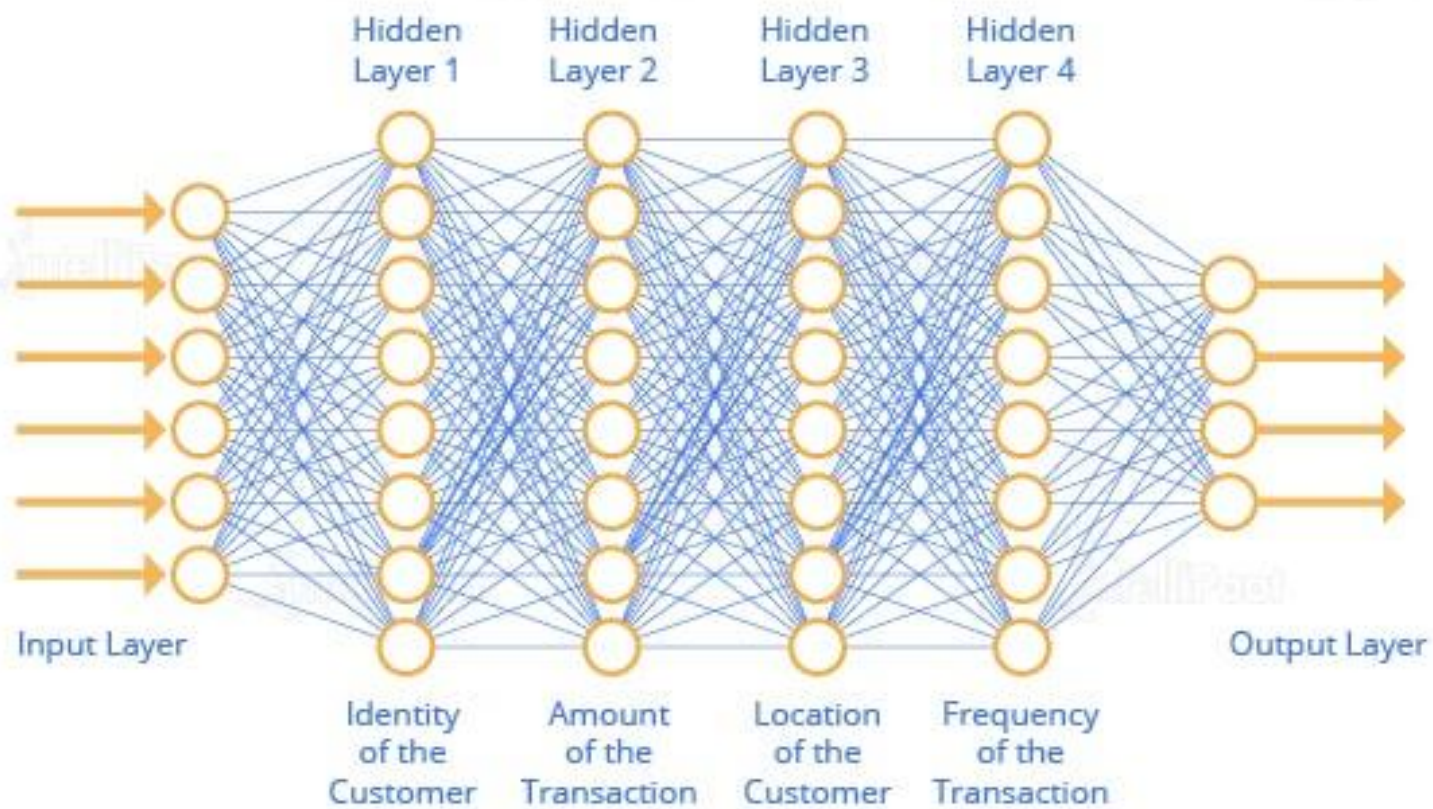


Classification

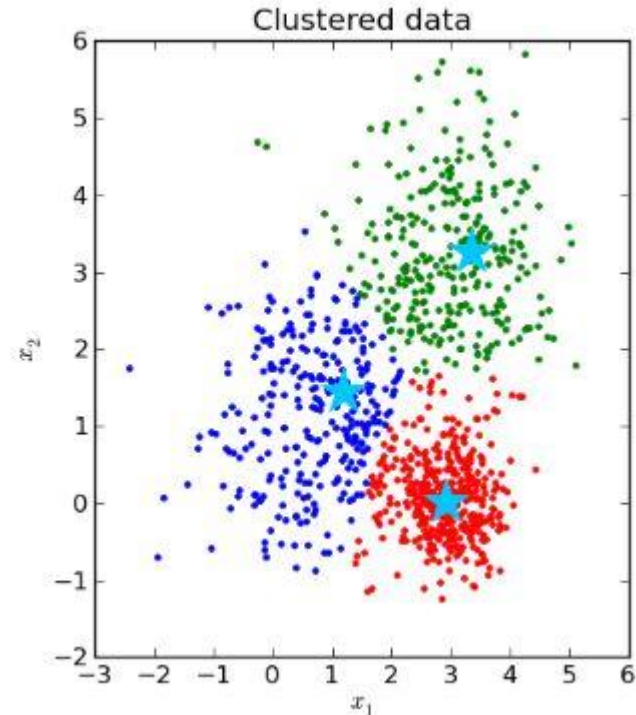
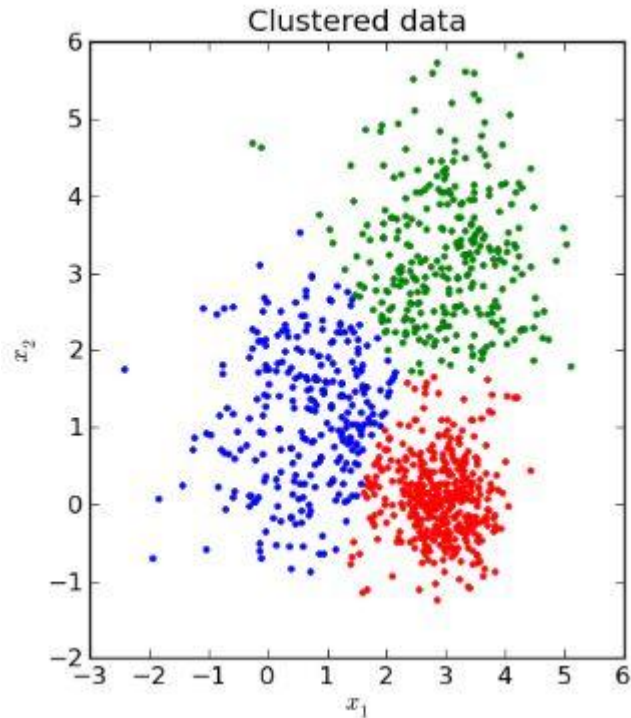
Types of Classification Algorithm

- ❖ Logistic Regression
- ❖ Decision Tree
- ❖ Random Forest
- ❖ Neural Network

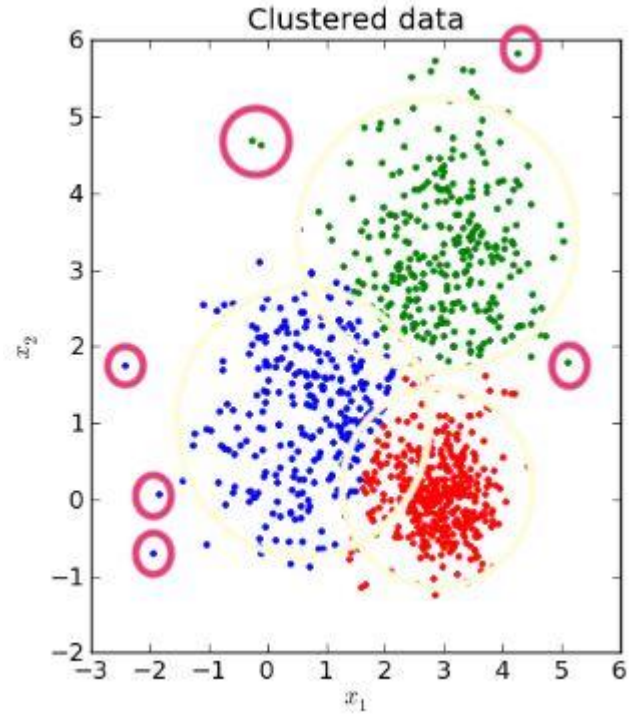
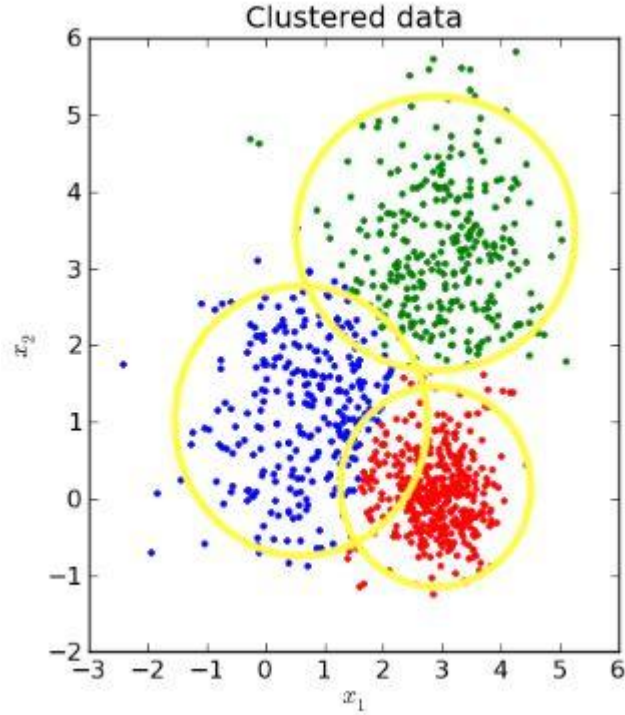




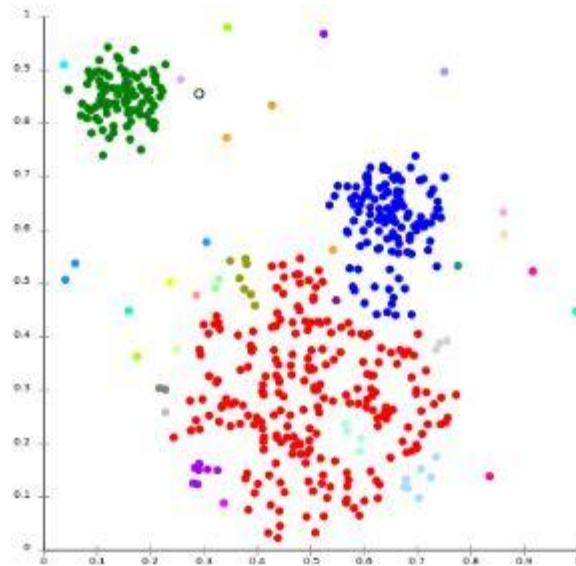
Fraud detection using unlabeled data (unsupervised learning)



Finding outliers



DBSCAN



Other clustering algorithms

Mean-shift

Spectral

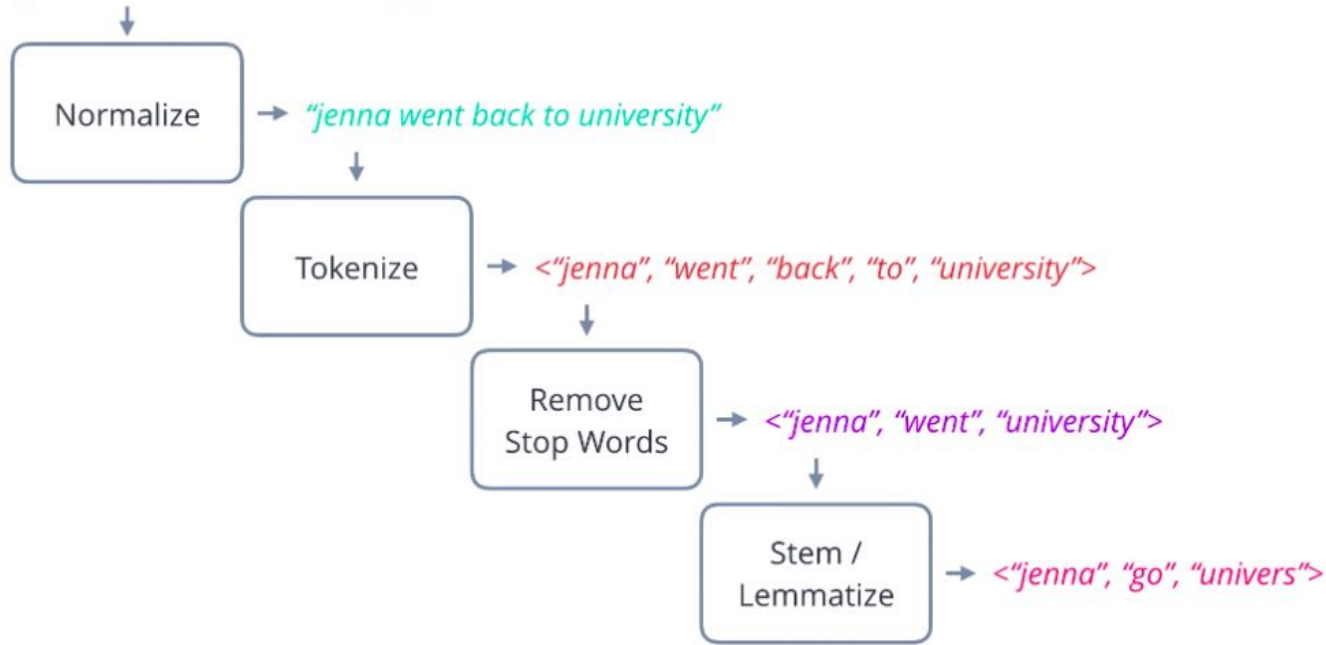
Ward

OPTICS

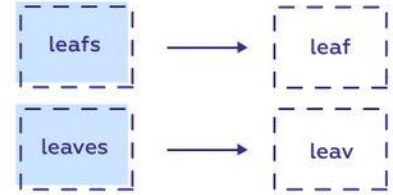
The background features a complex network graph on the left with nodes in blue, orange, and teal. On the right, two hands are shown: one holding a large orange pencil and the other holding a transparent sheet with text. The text on the sheet is a dense, illegible block of characters. The overall theme is data analysis and fraud detection.

FRAUD DETECTION USING TEXT

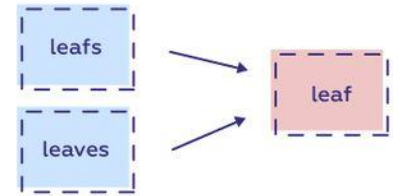
"jenna went back to University."



Stemming



Lemmatization



sciforce

Working With Textual Data

THANK YOU FOR LISTENING

