

Personalization Engine Neural Network Development Document

Version

Version	Updated by	Modification
1	Jay	demo
1.1	Jay	Updated table for roles

Table for roles

(Please add your name and your desired subsystem into below table)

Subsystem	Name
Data preprocessing	Jay Huang, Dharsan
Model Building/Training	Thrishal
Post-processing	
Deployment	Jay Huang
Testing	

Design

Architecture

Features

Learning Styles Classification

Data Preprocessing

Clustering

Clustering conversation slices into groups by using k-means.

Tokenization

Feature Engineering

Data Augmentation (if necessary)

Data Split

Might be determined by model training strategy.

Model Training

Model Initialization

Training Strategy

Model Evaluation Metrics

Post-processing

Deployment

Model Serving

Integration with Chatbot

Monitoring and Maintenance

Testing

Unit Testing

System Testing

User Acceptance Testing (UAT)

Challenges & Limitations

Future Enhancements