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| **TCM DOCUMENT ID:**  <SOL\_3461\_003\_Deployment\_Instruction>  **last updated:**  Date: 07/11/2019 |

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| Language Transliteration - Deployment instruction   1. There are two notebooks **TrainTraslit-word.ipynb** and **TestTranslit-word.ipynb** 2. Install Python 3.6 and tensorflow 1.14(I used) 3. Start the jupyter notebook 4. Open the **TrainTraslit-word.ipynb,** give the dataset as in fist cell 5. Execute all the cells and install dependencies as per it asked for. 6. At last it will generate a model in the current directory **s2shin.h5** 7. Once the model trained open **TestTranslit-word.ipynb,** Give the inference file name in first cell 8. Execute all the cells make sure num\_samples should be same as given in training. 9. It will load the model saved in step 6 while training. 10. All inference output will saved in **TranscriptedNames.csv**  Applicable for Solutions Sets <copy/paste this information from same topic in SOL\_XXX\_001\_Solution\_Description>  No valid solution set found Type Integration (application)  Localisation (geographic) Domain Not related to any domain, its generic NLP activity can used across domain. Purpose This an implementation of Language Transliteration i.e. transforms the text in a local indic language and get it transliterate in to English, saying we need to train the model with desired language, this is genric code which could be trained in local specific language with pair of texts on both language, solution takes input text in the local language and get it translate in to English. Purpose of this need is we have to transliterate the Named Entities from one language to another without going in to meaning of that Pre-requisites In order to enable this Solution, following technology must be available:   * Python 3.6 * Tensorflow * Keras * Jupyter Notebook(Anaconda)   In addition, following pre-requisites must be fulfilled:   * System must have installed python , tensorflow and Jupyter notebook * Not mandatory, model could be trained on GPU more efficiently if the underline hardware has GPU installed for that CUDA and CuDNN need to be installed. * If you are training on GPU version, install GPU supported tensorflow using pip install tensorflow-gpu  Roles/skills required Basic knowledge of python and tensorflow Timeline N/A |
| Activity line for deployment (Sequence)  1. There are two notebooks **TrainTraslit-word.ipynb** and **TestTranslit-word.ipynb** 2. Install Python 3.6 and tensorflow 1.14(I used) 3. Start the jupyter notebook 4. Open the **TrainTraslit-word.ipynb,** give the dataset as in fist cell 5. Execute all the cells and install dependencies as per it asked for. 6. At last it will generate a model in the current directory **s2shin.h5** 7. Once the model trained open **TestTranslit-word.ipynb,** Give the inference file name in first cell 8. Execute all the cells make sure num\_samples should be same as given in training. 9. It will load the model saved in step 6 while training. 10. All inference output will saved in **TranscriptedNames.csv** |
| Link to the assets  |  |  |  | | --- | --- | --- | | Name | Description | Link to Asset | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |
| Validation/Testing N/A |