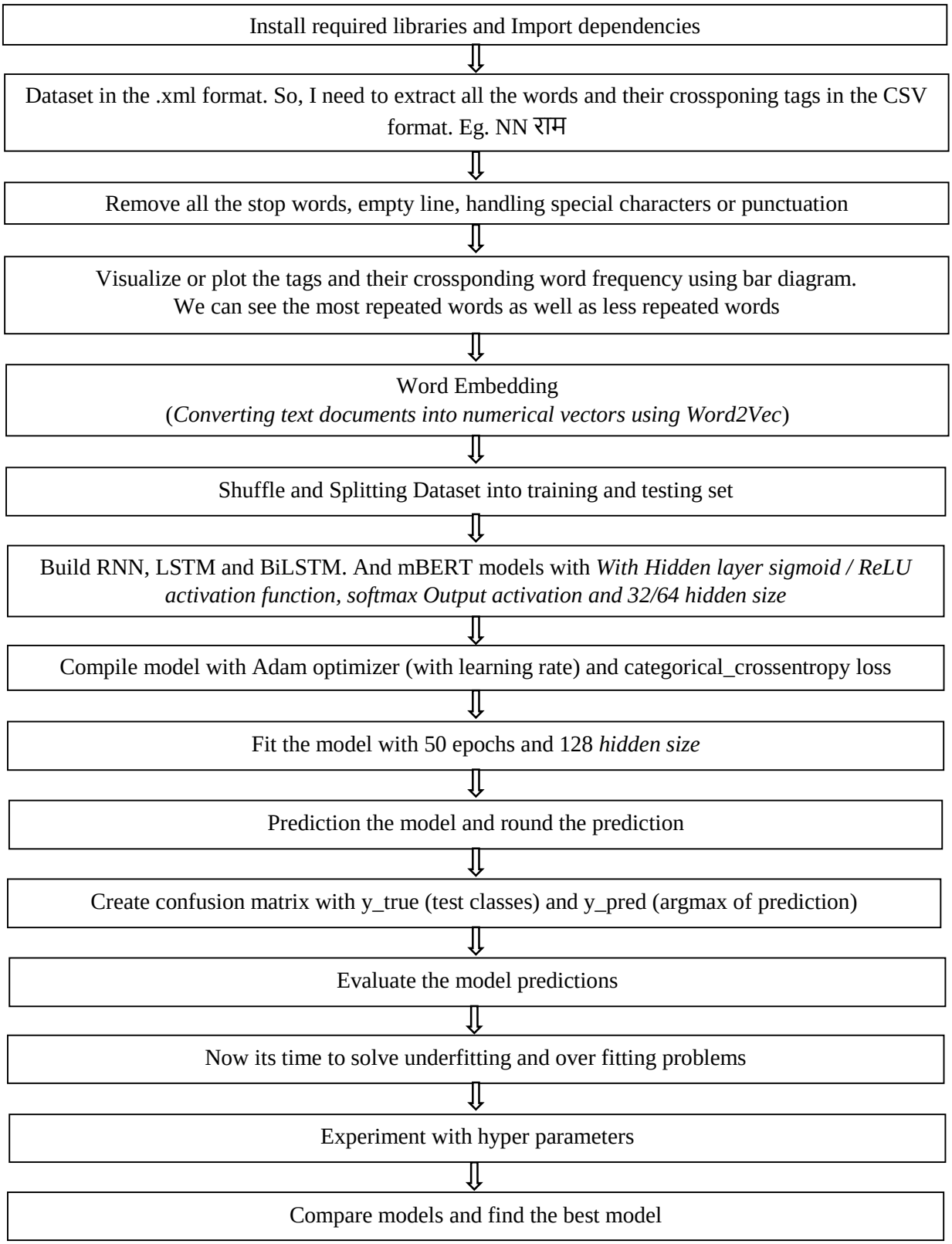
Section2: Coding wise implementation (Methodology)



Hyper Parameters

Hyper-Parameters	Multiclass Classification
Input layer shape(in_feature)	Same as number of features (eg, 4 for age, sex, height, weight)
Hidden layers	Problem specific, minimum = 1, maximum = unlimited
Neurons per hidden layer	Problem specific, generally 10 to 512
Output layer shape (out_features)	1 per class (eg 3 for food, person, dog)
Hidden layer activation	Usually ReLU (rectified linear unit) but can be many others
Output activation	Softmax (torch.softmax in Pytorch)
Loss function	Cross entropy (torch.nn.CrossEntropyLoss in Pytorch)
Optimizer	SGD (stochastic gradient descent) or Adam etc.
Epoch (loop)	50
Batch size (number of neurons)	128
Dropout	0.3

Note: All the above mentioned hyper parameters value and other values are based on previous research paper because that values had given best results in their research.