We ran the model locally in personal computer.

Below is the directory structure.

Rest depicts how the model runs and emits the sentiments.

Anaconda Prompt (anaconda3) - python Sentiment_CNN_v1.py

```
 Directory of C:\Users\itsme\sivaworkspace\CourseProject

12/10/2021  09:26 PM    <DIR>          .
12/10/2021  09:26 PM    <DIR>          ..
12/08/2021  11:13 AM    <DIR>          .idea
12/08/2021  11:50 AM    <DIR>          .ipynb_checkpoints
12/09/2021  01:09 PM             2,548 app.py
12/10/2021  05:28 PM               217 app1.py
12/08/2021  11:13 AM           141,318 C410 - TIS - Progress Report.pdf
12/08/2021  11:13 AM           109,177 C410 - TIS - Project Proposal.pdf
12/08/2021  03:47 PM                87 cat_to_name.json
12/08/2021  03:48 PM                28 class_to_idx.json
12/08/2021  03:50 PM               650 commons.py
12/08/2021  12:03 PM    <DIR>          content
12/08/2021  07:36 PM            11,857 deleteSentiment_CNN.py
12/08/2021  11:56 AM            17,318 email_data_cleaning.ipynb
12/08/2021  03:45 PM               544 inference.py
12/08/2021  11:13 AM    <DIR>          Model
11/11/2021  07:16 AM       375,719,138 new_emails.csv
12/08/2021  11:13 AM             1,111 README.md
12/10/2021  05:26 PM               109 request.py
12/09/2021  12:11 PM            63,494 Sentiment_CNN_v1.ipynb
12/10/2021  09:24 PM            11,862 Sentiment_CNN_v1.py
12/08/2021  07:29 PM    <DIR>          static
12/08/2021  07:28 PM    <DIR>          templates
12/09/2021  07:35 AM    <DIR>          __pycache__
              15 File(s)    376,079,458 bytes
               9 Dir(s)  142,697,189,376 bytes free
```

■ Anaconda Prompt (anaconda3) - python Sentiment_CNN_v1.py

```
(base) C:\Users\itsme\sivaworkspace\CourseProject>python Sentiment_CNN_v1.py
Using device: cpu
Sample text: ['Message', 'ID', '5474548', '1075841638905', 'JavaMail', 'evans', 'thyme', 'Date', 'Tue', '16', 'Jan', '2001', '07', '50', '00', '0800', 'PST', 'From',
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rom', 'Evelyn', 'Metoyer', 'X', 'To', 'Kate', 'Symes', 'enron', 'com', 'X', 'cc', 'X', 'bcc', 'X', 'Folder', 'kate', 'symes', '6', '27', '02', 'Notes', 'Folders', 'Al
', 'X', 'FileName', 'kate', 'symes', '6', '27', '02', 'nsf', 'Mark', 'Fischer', 'deal', '497791', 'Amerex', 'shows', 'price', 'as', '155', 'and', 'enpower', 'has']
Sample label: symes-k/all_documents/1118.


Sample text: ['Message', 'ID', '20421197', '1075844529282', 'JavaMail', 'evans', 'thyme', 'Date', 'Thu', '21', 'Oct', '1999', '08', '47', '00', '0700', 'PDT', 'From',
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'7bit', 'X', 'From', 'Sara', 'Shackleton', 'X', 'To', 'Lynn', 'Aven', 'X', 'cc', 'X', 'bcc', 'X', 'Folder', 'Sara_Shackleton_Dec2000_June2001_1', 'Notes', 'Folders', 'us
', 'FileName', 'sshackle', 'nsf', 'Let', 's', 'do', 'it', 'on', 'Tuesday', 'Oct', '26', 'at', '2', 'pm', 'If', 'Brent', 'is', 'available', 'all', 'the', 'better', 'Let
visit', 'Enronland', 'I', 'don', 't', 'mind', 'the', 'walk', 'Sara', 'Lynn', 'Aven', 'ENRON_DEVELOPMENT', '10', '21', '99', '03', '01', 'PM', 'To', 'Sara', 'Shackleto
', 'meeting', 're', 'Tozzini', 'memo', 'Monday', 'or', 'Tuesday', 'of', 'next', 'week', 'is', 'ok', 'for', 'me', 'with', 'the', 'exception', 'of', '8', '30', 'to', '1
'out', 'of', 'the', 'question', 'since', 'there', 'is', 'a', 'Comgas', 'II', 'all', 'day', 'working', 'session', 'planned', 'Let', 'me', 'know', 'what', 'date', 'wor
hackleton', 'ECT', '10', '21', '99', '01', '33', 'PM', 'To', 'Lynn', 'Aven', 'ENRON_DEVELOPMENT', 'ENRON_DEVELOPMENT', 'cc', 'Subject', 'meeting', 're', 'Tozzini', 'm
, 'up', 'here', 'Brent', 'may', 'not', 'get', 'my', 'e', 'mail', 'for', 'awhile', 'I', 'believe', 'that', 'he', 'is', 'in', 'Houston', 'today', 'on', 'personal', 'bus
, 'conclusion', 'of', 'the', 'ENA', 'legal', 'conference', 'which', 'is', 'Th', 'Fr', 'next', 'week', 'What', 'is', 'your', 'availability', 'on', 'Mon', 'or', 'Tues'
ut', 'something', 'together', 'at', 'least', 'you', 'and', 'I', 'can', 'have', 'a', 'game', 'plan', 'so', 'that', 'we', 'can', 'plan', 'our', 'next', 'visit', 'to', '
mmer', 'Sara']
Sample label: shackleton-s/sent/521.


Vocab size: 62697
Example text: tensor([    3,     4,     2,     2,     5,     6,     7,     8,  1517,   526,
         1006,   919,    13,   230,   120,   121,   122,    18,  1980,   396,
           21,    22,    23, 39730,  8710,  8711,    22,    28,    29,  2122,
         6998, 11027,    34,    35,    36,    37,    38,    39,    40,    41,
           42,    43,    44,    38,    45,    46,    47,    48,    18,  1980,
          396,    48,    23,  3759, 39733, 39730,  8710,  8711,    22,    21,
```

■ Anaconda Prompt (anaconda3) - python Sentiment_CNN_v1.py

```
The model has 11,973,891 trainable parameters
Training Model...
  0%|          | 0/25 [00:00<?, ?it/s]
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, 'smith', 'enron', 'com', 'Subject', 'Cal', 'PX', 'Bridge', 'Mime', 'Version', '1', '0', 'Content', 'Type', 'text', 'plain', 'charset', 'us', 'ascii', 'Content', 'Transfer', 'Encoding', '7bit', 'X', 'From', 'Ka
te', 'Symes', 'X', 'To', 'Will', 'Smith', 'X', 'cc', 'X', 'bcc', 'X', 'Folder', 'kate', 'symes', '6', '27', 'X', 'Origin', 'SYMES', 'K', 'X', 'FileName', 'kate', 'symes', '6',
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transaction', 'numbers', 'on', 'the', 'first', 'four', 'but', 'I', 'believe', 'they', 'were', 'going', 'in', 'a', 'sequence', 'beginning', 'at', '627', 'Thanks', 'so', 'much', 'for', 'your', 'help', 'on', 'this'
, '458259', '458260', '64', '65', '66', 'Tie', 'Points', '67', '69', '70', '458271', '72', 'PX', '73', '458276', '58', 'Imbalance']
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Sample text: ['Message', 'ID', '19566476', '1075857163885', 'JavaMail', 'evans', 'thyme', 'Date', 'Fri', '10', 'Mar', '2000', '09', '29', '00', '0800', 'PST', 'From', 'david', 'martin', 'enron', 'com', 'To', 'vi
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vid', 'mitchell', 'enron', 'com', 'sean', 'keenan', 'enron', 'com', 'brent', 'bechtol', 'enron', 'com', 'marc', 'hensel', 'enron', 'com', 'brian', 'redmond', 'enron', 'com', 'joseph', 'escobar', 'enron', 'com',
'eric', 'mason', 'enron', 'com', 'brandon', 'neff', 'enron', 'com', 'benjamin', 'rogers', 'enron', 'com', 'tj', 'rylander', 'enron', 'com', 'key', 'kasravi', 'enron', 'com', 'christopher', 'robinson', 'enron',
com', 'jeffrey', 'soo', 'enron', 'com', 'webb', 'jennings', 'enron', 'com', 'heidi', 'hellmann', 'enron', 'com', 'chris', 'hilgert', 'enron', 'com', 'Subject', 'Forwarding', 'Info', 'Mime', 'Version', '1', '0',
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amin', 'Rogers', 'TJ', 'Rylander', 'Key', 'Kasravi', 'Christopher', 'Robinson', 'Jeffrey', 'Soo', 'Webb', 'Jennings', 'Heidi', 'Hellmann', 'Chris', 'Hilgert', 'X', 'cc', 'X', 'Folder', 'Benjamin
_Rogers_Dec2000_1', 'Notes', 'Folders', 'All', 'documents', 'X', 'Origin', 'Rogers', 'B', 'X', 'FileName', 'brogers', 'nsf', 'I', 'found', 'out', 'today', 'what', 'my', 'email', 'and', 'direct', 'number', 'will'
, 'be', 'out', 'in', 'LA', '310', '246', '3684', 'dmartin', 'imperialcapital', 'com', 'Regards']
Sample label: rogers-b/all_documents/1682.


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nd', 'Todd', 'Todd', 'Bland', 'ENRON', 'com', 'Dean', 'Craig', 'Craig', 'Dean', 'ENRON', 'com', 'Guzman', 'Mark', 'O', 'ENRON', 'OU', 'NA', 'CN', 'RECIPIENTS', 'CN', 'Mguzman3', 'Harasin', 'Leaf', 'O', 'ENRON',
'OU', 'NA', 'CN', 'RECIPIENTS', 'CN', 'Lharasin', 'Linder', 'Eric', 'O', 'ENRON', 'OU', 'NA', 'CN', 'RECIPIENTS', 'CN', 'Elinder', 'Merriss', 'Steven', 'O', 'ENRON', 'OU', 'NA', 'CN', 'RECIPIENTS', 'CN', 'Smerri
s', 'Meyers', 'Bert', 'O', 'ENRON', 'OU', 'NA', 'CN', 'RECIPIENTS', 'CN', 'Bmeyers', 'Mier', 'Michael', 'O', 'ENRON', 'OU', 'NA', 'CN', 'RECIPIENTS', 'CN', 'Mmier', 'Porter', 'David', 'V', 'O', 'ENRON', 'OU',
A', 'CN', 'RECIPIENTS', 'CN', 'Dporter3', 'Presto', 'Darin', 'O', 'ENRON', 'OU', 'NA', 'CN', 'RECIPIENTS', 'CN', 'Dpresto2', 'Slinger', 'Ryan', 'O', 'ENRON', 'OU', 'NA', 'CN', 'RECIPIENTS', 'CN', 'Rslinger', 'So
lberg', 'Geir', 'O', 'ENRON', 'OU', 'NA', 'CN', 'RECIPIENTS', 'CN', 'Gsolber', 'Symes', 'Kate', 'O', 'ENRON', 'OU', 'NA', 'CN', 'RECIPIENTS', 'CN', 'Ksymes', 'Williams', 'III', 'Bill', 'O', 'ENRON', 'OU', 'NA',
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lt', 'Please', 'sell', 'this', 'energy', 'in', 'the', 'off', 'peak', 'on', 'peak', 'will', 'go', 'to', 'fill', 'our', 'W', 'BOM', 'short', 'I', 'have', 'scheduled', 'an', 'HA', '24', 'purchase', 'from', 'the',
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Sample label: solberg-g/inbox/150.


Sample text: ['Message', 'ID', '8179794', '1075841426984', 'JavaMail', 'evans', 'thyme', 'Date', 'Wed', '6', 'Feb', '2002', '04', '56', '28', '0800', 'PST', 'From', 'jae', 'black', 'enron', 'com', 'To', 'm', 'pr
esto', 'enron', 'com', 'Subject', 'RE', 'Contact', 'Info', 'Mime', 'Version', '1', '0', 'Content', 'Type', 'text', 'plain', 'charset', 'us', 'ascii', 'Content', 'Transfer', 'Encoding', '7bit', 'X', 'From', 'Blac
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older', 'ExMerge', 'Presto', 'Kevin', 'M', 'Deleted', 'Items', 'X', 'Origin', 'PRESTO', 'K', 'X', 'FileName', 'kevin', 'presto', '2', '7', '02', 'pst', 'Thank', 'you', 'have', 'fun', 'and', 'try', 'to', 'relax
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n', 'my', 'cell', 'in', 'Florida', 'In', 'addition', 'you', 'can', 'leave', 'messages', 'with', 'the', 'hotel', 'voice', 'mail', 'I', 'am', 'staying', 'at', 'Ritz', 'Carlton', 'on', 'Key', 'Biscayne', 'I', 'will
, 'also', 'be', 'checking', 'e', 'mail', 'at', 'least', 'once', 'per', 'day']
Sample label: presto-k/deleted_items/15.
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