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no warnings "all";

my %good=();
my %goodProb =();
open(good,"good.txt") or die $!;

while(<good>){
    chomp;
    @values=split("\t",$_);
    $good{$values[0]}=$values[1];
}
close(good);

my %bad=();
my %badProb=();
open(bad,"bad.txt") or die $!;

while(<bad>){
    chomp;
    @values=split("\t",$_);
    $bad{$values[0]}=$values[1];
}
close(bad);

my %voca=();
open(voca,"vocabulary.txt") or die $!;

while(<voca>){
    chomp;
    my $goodProb=0;
    if(exists($good{$_})){
        #print "$good{$_}\n";
        $goodProb=($good{$_})/(216178+685);
        #print "$_\tGood\t$goodProb\n";
        $goodProb{$_}=$goodProb;
    }else{
        $goodProb=(1)/(216178+685);           # Add one smoothing
        #print "$_\tGood\t$goodProb\n";
        $goodProb{$_}=$goodProb;
    }

    my $badProb=0;
    if(exists($bad{$_})){
        #print "$bad{$_}\n";
        $badProb=($bad{$_})/(44575+685);
        #print "$_\tbad\t$badProb\n";
        $badProb{$_}=$badProb;
    }else{
        $badProb=(1)/(44575+685);           #Add one smoothing

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        #print "$_\tbad\t$badProb\n";
        $badProb{$_}=$badProb;
    }

}

close(voca);

$isGood=11119/13842;
$isBad=2723/13842;
my $dir = "test";
opendir DIR, $dir or die "cannot open dir $dir: $!";
my @files= readdir DIR;
closedir DIR;

print "File\tACTUAL\tPREDICTED\tposProb\n";
foreach(@files){
    $isGood=11119/13842;
    $isBad=2723/13842;
    $filename="./test/$_";

    @file = split("-",$_);
    if($file[0] eq "movies" & $file[1] eq "1"){
        print "$filename\t";
        print "negative\t";

        open(file,"$filename") or die $!;
        $review=<file>;
        @words=split(' ', $review);
        foreach(@words){
            $_=~ tr/a-zA-Z//dc;
            $_=lc $_;
            if(exists($goodProb{$_})){$isGood = $isGood* $goodProb{$_};}
            if(exists($badProb{$_})){$isBad = $isBad *$badProb{$_};}
        }

        #print "$isGood\n";
        #print "$isBad\n";

        if($isGood > $isBad){
            print "positive\t";
        }else{
            print "negative\t";}

        close(file);
        print "$isGood\n";
    }
}

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    }elseif($file[0] eq "movies" & $file[1] eq "5"){
$isGood=11119/13842;
$isBad=2723/13842;
    print "$filename\t";
    print "positive\t";

    open(file,"$filename") or die $!;
    $review=<file>;
    @words=split(' ', $review);
    foreach(@words){
        $_=~ tr/a-zA-Z//dc;
        $_=lc $_;
        if(exists($goodProb{$_})){$isGood = $isGood* $goodProb{$_};}
        if(exists($badProb{$_})){$isBad = $isBad *$badProb{$_};}
    }

    #print "$isGood\t";
    #print "$isBad\n";

    if($isGood > $isBad){
        print "positive\t";

    }else{
        print "negative\t";

        print "$isGood\n";

    }

}

```