ANLP Assignment 1

October 12, 2015



$$PP_{M}(\vec{w}) = 2^{H_{M}(\vec{w})}$$

$$= 2^{-\frac{1}{n}\log_{2}P_{M}(\vec{w})}$$

$$= 2^{\log_{2}P_{M}(\vec{w})^{-\frac{1}{n}}}$$

$$= P_{M}(\vec{w})^{-\frac{1}{n}}$$

$$\approx \prod_{i=1}^{n} P(w_{n}|w_{n-1}, w_{n-2})$$

$$= 6\sqrt{\frac{1}{0.2 * 0.7 * 0.6 * 0.25 * 0.5 * 0.1}}$$

$$\approx 3.1367$$
(1)

 w_{-1} and w_0 refer to the first two '[' character