

Manoj Patra

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EXPERIENCE

Samsung Research Institute, Bangalore — Software Engineering Intern

MAY 2019 - JULY 2019

Worked with the Voice Intelligence Team and built an one-class classifier using a GAN architecture that could be used as an Out-of-Domain Detector for Dialog Systems (Bixby), using only the in-Domain data.

PROJECTS

Sentimix (Research Project)— Sentiment Classification of Code-Mixed Social Media Text

It is a SemEval'20 Task, basically sentiment analysis but the data consists of English-Hindi Code-Mixed Text used in Social Media nowadays. Sub-word level features were created and, BiLSTM and Attention mechanism were used to extract proper sentiments and a Fully Connected Network at the end as a classifier.

Movie Recommendation Engine — (Movielens Dataset)

It recommends movies that the user hasn't watched till now. Dataset consists of Movie Ratings given by users. Implemented Neural Collaborative filtering Model. It is a Deep Learning Model which basically is an improved version of Matrix Factorization.

Dog Breed Prediction

It is a Multi-Class Classification Task to predict the breed of the Dog, given an image of a Dog. Used Resnet34 Architecture with transfer learning and data augmentation and achieved an accuracy of 91.67%.

Sarcasm Detection

It is a classification task where a tweet is classified as being sarcastic or not. Dataset is collected from twitter. Preprocessed the data using regex and splitted hashtags using Ekphrasis Tokenizer. Passed this processed data through a Multi-Channel Convolutional Neural Network with LSTM layer and a Fully Connected Network at the end as a classifier.

HOBBIES

Dancing, Singing

EDUCATION

Indian Institute of Technology (ISM), Dhanbad — B.Tech, Computer Science

JULY 2016 - MAY 2020 CGPA – 8.69

SCR Public School, Gurgaon — 12th

APRIL 2014 - APRIL 2016 94%

COURSES

Data Structures and Algorithms, Operating Systems, Object Oriented Programming(Cpp,Java), Database Management Systems

SKILLS

- Languages : C, C++, Python
- Library and Frameworks : Keras, PyTorch, Numpy, Pandas

ACHIEVEMENTS

- Global Rank 12 in Flipkart Grid Challenge, Level 2 (Object Localization Task)
- Global rank 185 in Google Kickstart 2018 Round C
- 1st in Code Marathon v5.0 ML hackathon (College Level)
- Secured Rank of 20 in Code Marathon v4.0 Coding Contest -Div2 (College level)
- Global rank 28 in Codechef March Challenge 2018 Div2
- Global rank 74 in Codeforces Round 498 Div3
- Global rank 104 in Codeforces Round 496 Div3
- 3rd in Dance at Udbhav'19 (Annual Branch Fest)

COMPETITIVE PROGRAMMING

- Codeforces : Expert with max rating 1699
- Codechef : 4 Stars with max rating of 1913
- Spoj : World Rank 3654 with rating 9.9

POSITIONS OF RESPONSIBILITY

- Member of Data Science Club, IIT Dhanbad
- Organizer of Data Hackathon and Workshops at Conchetto'19, TechFest of IIT Dhanbad
- Volunteered for RAIT International conference, 2018