Ishita Ankit

https://iankit25.github.io/

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EDUCATION

University of Massachusetts, Amherst, MA Sep 2017 - Jun 2019
Master of Science in Computer Science

Indian Institute of Technology, Kanpur(IITK), India Jul 2013 - Jul 2017
Bachelor of Science in Mathematics & Scientific Computing *GPA: 8.1/10*
Minor: Artificial Intelligence

RELEVANT COURSES

Probability & Stochastic Processes	Data Structures & Algorithms	Deep Learning
Machine Learning Tools and Techniques	Computer Vision	Reinforcement Learning(on-going)

PROGRAMMING SKILLS

Languages: C, C++, Java, Python, MATLAB, R, HTML5 **Libraries**: TensorFlow, Scikit learn, OpenCV

INTERNSHIPS AND PROJECTS

Descriptive Image Captioning and Video Captioning Jul 2016 - Dec 2016
Prof.V.Namboodiri, Prof.Gaurav Sharma, CSE, IITK
- Replicated the **Torch** implementation results of Dense Captioning model to obtain region- specific captions; used Stanford Parser to extract root words for topic basis clustering and fed them into an encoder- decoder model trained to generate sentences from phrases obtaining meaningful paragraphs.
- Implemented the State-of-the-art model of Sequence to Sequence-Video to Text in **Caffe** and used audio features to improve the confidence in activity prediction; combined the Deep Compositional Captioning model to use language model trained on DBpedia with the aim to reduce dependency on annotated dataset.

Predicting User Relevant Advertisement May 2016 - Jul 2016
InMobi, Bangalore, India, Data Scientist Intern
- Analyzed data containing app usage history to obtain user specific pattern in the app preferences.
- Grouped users with similar features using k-means, agglomerative Mean-Shift and Markov models in **Python**.
- Trained SVM, decision trees & Random Forest to predict user specific ads based on maximum click through rates.

Demand Pool Analyzer (DPA) May 2016 - Jul 2016
InMobi, Bangalore, India, Software Intern
- Built an Analytical Engine to get insight into Supply-Demand Matching for real time debugging.
- Implemented a tomcat based web app in **Java** backed by **Elastic Search** for efficient querying & aggregating data.
- Received real time feedback using **Kafka** which provided filtered data for analysis from serving systems.

Pedestrian and Vehicle Classification Jan 2016 - Apr 2016
Prof.Harish Karnick, CSE, IITK
- Incorporated grey-scale, hierarchial HOG, SIFT features for clustering and classification on surveillance videos.
- Experimented with SVM, Random Forest, Adaboost, Convolutional Neural Nets for classification of vehicles and pedestrians using **scikit-learn(Python)** obtaining the highest accuracy of 95.37%.

Gaussian Processes for Regression Jan 2016 - Apr 2016
Prof.Piyush Rai, CSE, IITK
- Applied Gaussian Processes to forecast forest-fires with an accuracy of 70% using **GPML MATLAB** library.
- Assumed a bell-curve prior with zero mean and squared exponential covariance over the predicting function and used Bayes Theorem to obtain a posterior(which is also a Gaussian Distribution) for forecasting.

INTERESTS & ACTIVITIES

HackTheNorth'17	Built a sign language interpreter and sentence generation model at the 36 hour Hackathon.
Entrepreneurship Cell	Organized eSummit'15, TEDxIITKanpur'16 and was a part of Enactus(NGO).
Basketball	Won the Best Incoming Sports person award; represented the institute at InterIIT Sports.