Naman Narang

Final Year Postgraduate • Computer Science And Engineering

(+91) 999-713-3225 | namann@cse.iitk.ac.in | naman28 | naman-narang

Education

2018-2020	M.Tech(Computer Science & Engg.)	Indian Institute of Technology, Kanpur	**7.43/10.0**
2014-2018	B.Tech(Information Technology)	Graphic Era (Deemed To Be University)	**8.31/10.0**
2013 -2014	Higher Secondary Certificate	S.D. Public School(CBSE)	**63.40%**
2011-2012	Secondary School Certificate	Holy Angel's Convent School (CBSE)	**7.4/10.0**

Research Experience

Speech Recognition (M.Tech Thesis) | ***Under Prof. Nisheeth Srivastava*** *Jan. 2019 - Jul. 2020*

- Implemented supervised CNN based architecture for Speech Recognition models which takes spectrogram of audio as input
- Implemented unsupervised Auto-encoders to extract features from the spectrogram and used KNN for classification
- Implemented convolution and recurrent neural network based architecture for end-to-end speech recognition system
- Working on Hedge Algorithm to find the best model suited for the speaker whose audio samples are not in the training set

Key Projects

Secure Drop-Box | ***(CS628) Under Prof. Pramod Subramanyan*** *Jan. 2019 - Apr. 2019*

- Designed an architecture of Secure Drop-Box based on key-value pairs and considering that storage server is malicious
- Implemented the designed architecture which provides file storage and file sharing with other users using GO-lang

Distributed Random Generation Of Quiz | ***(CS632)Under Prof. R K Ghosh*** *Aug. 2018 - Dec. 2018*

- Designed a platform to generated random Multiple choice question paper and evaluate the response obtained
- Servers generating question paper is distributed over the network which supports Load balancing and Fault tolerance

Unsupervised Image Segmentation | ***(CS783) Under Prof. Vinay P. Namboodiri*** *Jan. 2019 - Apr. 2019*

- Implemented and compared results of K-Means, W-Net and Super pixel refinement with CNN for Semantic Segmentation

Object Detection | ***(CS783) Under Prof. Vinay P. Namboodiri*** *Jan. 2019 - Apr. 2019*

- Implemented CNN model for object detection using sliding window approach and classifying each object detected

Cold Start Problem In Recommendation Systems | ***(CS771)Under Prof. Piyush Rai*** *Aug. 2018 - Dec. 2018*

- Worked on Movielens 1M dataset for Recommending movies to new users and new movies to existing users
- Methods used to solve cold start problem are Sparse Value Decomposition and Probabilistic Matrix Decomposition

Publications

- Rahul Nijhawan,Deepankar Joshi, ***Naman Narang*** , Aditya Mittal and Ankush Mittal. A Futuristic Deep Learning Framework Approach for Land Use-Land Cover Classification Using Remote Sensing Imagery . Proceedings of 11^{th} International Conference on Advanced Computing & Communication Technologies, 2018.

Achievements

2018 Among top 0.2% **(All India Rank 183)** in Graduate Aptitude Test in Engineering (GATE)

2018 Silver medalist in graduation for standing 2nd in Graphic Era university

Co-Curricular

Teaching Assistant | ***Indian Institute of Technology, Kanpur*** *Aug.2018 - Jul. 2020*

- Teaching Assistant at IIT Kanpur for Introduction to computing(ESC101) , Data structure and Algorithms(ESO207) , Special Topics in Natural Language Processing (CS698O)

Skills

Programming Languages & Web Technologies • C • C++ • Python • Go-lang • HTML • CSS • Javascript • SQL

Utilities & Softwares • Git • Numpy • Pandas • Scipy • Tensorflow • LaTeX

Relevant Courses

Computer System Security	Operating System	Introduction To Machine Learning
Topic in Distributed System	Parallel Algorithms	Ananlysis of Concurrent Programs