Anup Anand Deshmukh Deshmukh.Anand@iiitb.org IIIT-Bangalore, India | +91 8105862592 | LinkedIn profile Web address International Institute of Information Technology, Bangalore. May 2019 **EDUCATION** DegreeIntegrated Masters in Information Technology CGPA3.24/4 (At the end of eighth semester) CourseworkReinforcement Learning, Advanced Machine Perception, Machine Learning, Automata Theory and Computability, Big Data Algorithms, Advanced Cryptography, Linear Algebra, Signal Processing, Data Structures - Algorithms CS 302 Theory of Automata and Computations (Fall 2018) Teaching Assistant Deep learning for Computer Vision and Recommender Systems INTERESTS Anup Deshmukh, Pratheeksha Nair, Shrisha Rao, "A Scalable Clustering Algorithm for **PUBLICATIONS** Serendipity in Recommender Systems," Accepted in the ICDM 2018 workshop - SAREC Rameshwar Pratap, Anup Deshmukh, Pratheeksha Nair, Tarun Dutt, "Fast and Provable Concept Decompositions in Large Text Corpus," Accepted in the ACML 2018 conference A Minimax Game for User Satisfaction in Recommender Systems Ongoing RESEARCH Guide: Prof. Dinesh Babu Multimodal perception lab at IIITB **EXPERIENCE** • Formalizing the Minimax game, which can potentially model generator in Generative Adversarial Network - GAN, to give unexpected yet relevant recommendations. Scaling up Simhash Jan 2018-Aug 2018 Under review as a conference paper at AAAI 2019 Guide: Dr. R. Pratap • Proposed a dimensionality reduction sketching algorithm - simsketch - which maintains an estimate of the cosine similarity between original real valued vectors. Perception of Emotions from Audio Signals Ongoing WORK Intern at FAST lab-CentraleSupelec, Rennes-France Guide: Prof. Renaud Seguier **EXPERIENCE** • Analyzed different set of acoustic features which are designed to detect the perceptual content of audio with Convolutional Neural Network (CNN) in focus. Proposed i-CNN achieved 90.2% of categorical accuracy. Working on modelling human stress in the learnt 3-D emotion space. Spatio-Temporal Features of Crowd Models May 2017-July 2017 Intern at Murdoch University, Perth-Australia Guide: Prof. Ferdous Sohel • Worked on a problem of crowd counting which used conditional GAN by extending it to crowd datasets like SHOCK and WIDER FACE. • Qualitatively analyzed the CNN based models which effectively learn spatial features together with appearance features for video analysis. May 2016-July 2016 Slicepay, Bangalore - India Full Stack Developer • Led the task of bringing flexibility in payment through India's top 10 merchant websites. • Built the browser extension using JavaScript which gave access to the Slicepay's payment plans right from user's merchant website. Link: Slicepay's chrome extension Merge LSTM model for Image Description Generation August 2017-April 2018 COURSE Course: Research Elective Guide: Prof. Dinesh Babu **PROJECTS** • Built the deep model using Keras on the construction which uses both LSTM's for language modelling and CNN's for generating image representation. Achieved BLEU score of 0.51. Automated Essay Scoring with Cross Feature Vector Generation August 2017-Dec 2017 Course: Machine Learning I Guide: Prof. G Srinivasa R. • Designed and implemented the Intelligent Text Rater (ITR) with the proposed novel approach of feature vector generation of text essays. ITR achieved MSE as low as 0.729 for essay ratings. Python, Keras, TensorFlow, C++, JScript Languages SKILLS ToolsMatlab, Latex 2016 Winner of the Hackathon held in IIIT-B as part of the Signal Processing course. ACADEMIC 2016 Designed and created an Intellectual Property Management Portal for IIIT-B. ACHIEVEMENTS

Top 1% in Maharashtra State's Higher Secondary School Certificate (HSC) exam.

Academic Support, at Make A Difference teaching basic sciences to underprivileged students.

Secured All India Rank 940 in International English Olympiad.

Curator, TEDx IIITB; Co-Founder, IIITB 'Comic Club'

Social Media Team, Microsoft TechEd 2014

2014

2012

2018

2017

2014

LEADERSHIP