Jay Priyadarshi

EMAIL: jpriyada@usc	.edu	Phone: (213) 713-0559
Links: linkedin.com/ EDUCATION	in/jaypriyadarshi github.com/jaypriyadarshi	jaypriyadarshi.github.io
MAY 2017 M.S., Computer Science		
Universit	ty of Southern California, Los Angeles	GPA: 3.72/4.00
MAY 2015 B.Tech, C	omputer Science and Engineering	
WORK EXPERIE	Institute of Technology Karnataka, India INCE	GPA: 8.93/10.00
JUNE '17 - CURRENT	Research Scientist, Specifio , Inc. Automating the Patent Drafting Process for Attorneys. Developed the backend for person- alizing the generated applications. Mentored and managed 6 engineering interns.	
Tech stack	ck Python, Java, Tensorflow, Machine Learning, AI	
May '16 - May '17	Student Researcher, Information Sciences Institute Worked with Dr. Kevin Knight in the Natural Language Group to perform unsupervised Optical Character Recognition on historical cipher images to aid automatic translation from images to English.	
Tech stack	Python, OpenCV, Machine Learning, AI	
Aug '15 - May '17 Tech stack	Student Researcher, iLab at USC Worked with Dr. Laurent Itti to autonomously detect surprising/unusual events from surveil- lance videos and Human Attention Modeling using deep recurrent networks. Python, TensorFlow, Machine Learning, Deep Learning, AI, OpenCV	
May '14 - July '14	Software Development Intern, Samsung Research Institute Worked on development of an android application for collision avoidance in vehicles. Used Wi-Fi and Bluetooth Low Energy Beacons to transmit GPS data (through smartphones placed inside the car). Estimated the future trajectories of the vehicles in the vicinity using GPS data from beacon signals to calculate the probability of a collision.	
DELEVANT DEOLECTE		
NELEVANI I KUJEUIS		

Neural Network Library | github.com/jaypriyadarshi/NeuralNet | Python, Machine Learning
An optimized modular neural network library with fully vectorized implementation using numpy

- Supports Batch Normalization, Dropout, ReLU, Max pooling, Fully Connected and Convolutional layers
- Supports Stochastic Gradient Descent (vanilla and momentum), RMSprop and ADAM
- Includes Softmax and SVM loss functions
- Trained a Seven Layer Convolution Network, achieved 83.6% accuracy on CIFAR-10 dataset
- Poem Generator | github.com/jaypriyadarshi/Alexa-Skill-for-Poem-generation | node.js, Alexa Skills Kit Alexa Skill for Amazon Echo device to generate poetry on demand using Alexa Skills Kit(ASK)

- The developed node.js script (hosted on AWS Lambda function) makes an API call to retreive generated poem(using Recurrent Neural Net) for a user-requested topic and uses Alexa service to render text to speech

• Human Attention Modeling | github.com/jaypriyadarshi/AttentionModeling | Python, Tensorflow - Learning features that attracts attention for 6 neurological groups (CTRL, ALS, AD/MCI, PARKINSON, FTD, VCI) from the Eye Tracker data collected by participants watching video clips

- Recurrent Neural Network was trained on "What" + "Where" features. "What" features indicate the saliency features from a video frame calculated from the saliency maps. "Where" features indicate the region of the video frame that attracted a participant's attention

TECHNICAL SKILLS

Programming Languages: Python, C/C++, Java, JavaScript

Others: Tensorflow, NumPy, Docker, Jenkins, Android, Machine learning, Artificial Intelligence PUBLICATIONS - GOOGLE SCHOLAR

- "Perfect Accuracy with Human-in-the-Loop Object Detection", (R. Brenner, J. Priyadarshi, L. Itti), ECCV 2016
- "Hafez: an Interactive Poetry Generation System", (M. Ghazvininejad, X. Shi, J. Priyadarshi, K. Knight), ACL2017
- "SemEval-2017 Task 9: Abstract Meaning Representation Parsing and Generation", (J. May, J. Priyadarshi), Proc.SemEval 2017

AWARDS

- Best Demo Paper Award in ACL 2017
- Amazon Alexa Skills Challenge Finalist Award 2017