Divyansh Jha				
➡ divyanshj.16@gmail.com	📢 @divyanshj.16	O divyanshj16	<b>in</b> divyanshjha	<b>\$</b> +918800489598
EDUCATION				
<b>Guru Gobind Singh Indrapra</b> Bachelor of Technology, Electronic Coursework: Applied Mathematics I- Digital Signal Processing, Embedded	cs and Communication En IV, Data Structures and Algo	gineering, CGPA: 8.37 / rithms, DBMS, Computer 1	Networks,	ıgust. 2015 – May. 2019
EXPERIENCE				
The University of Texas at Au Visiting Researcher (Remote), wo • Working on integrating the	rking with Dr. Yuke Zhu (			Jan. 2021 – .
King Abdullah University of         Research Intern (Remote) with D         • Worked on creative art generation in         • Worked on art generation in         Esri R&D Center, New Delhi, I	<i>r. Mohamed Elhoseiny (As</i> eration and zero shot lea nterpretability and analy	<i>sst. Prof. of CS at KAUS</i> rrning. The resultant p	GT) aper is under review at	<i>Feb. 2020 – .</i> ICCV 2021. [Paper]
<ul> <li>Data Scientist II @EsriR&amp;D, pred</li> <li>Added deep learning mode to train and deploy deep learning</li> <li>Developed and assisted in ad net, PSPNet), Instance Segm Inpainting (PConv), Image</li> <li>Developed various demosy the plenary sessions. [Esri</li> </ul>	ls to the learn module of arning models on their of ddition of models for Ima mentation (Mask-RCNN) a Translation (CycleGAN which were presented in	the ArcGIS API for Pyt data in few lines of cod ge Classification, Objec and Point Cloud Segme ( and Pix2PixHD) and various Esri user conf	e within the ArcGIS pla t Detection(SSD, Retina entation(PointCNN), Im Change Detection (STA erences (UC) and deve	atform. Net), Pixel Classification nage Captioning, Image NNet) in PyTorch. loper summits (DS) in
RESEARCH PROJECTS Paper Implementation: Seman • Implemented SPADE Norm • Implemented perceptual, fe • Trained the network on Che • ournal Publication: Self-Attention • Implemented the self-attention	nalization block for the g eature matching and hin esapeake bay land cover ention Based Visual Dia tion module from the SA	enerator and discrimin ge loss for training the data to generate satell logue [Paper   Blog] GAN paper and integr	nator networks in PyTor GAN and integrated it ite imagery from corres rated it with Late-Fusion	rch. with fastai framework sponding land cover. <i>-Jan 2019</i> n Encoder of the visual
<ul><li>dialogue model which imp</li><li>Used the Visual Dialogue c</li></ul>		<b>1</b>		on set.
<ul> <li>Side Project: Generative Advance</li> <li>Implemented the generator</li> <li>Vanilla GAN loss function v</li> <li>Implemented a Deep Conversion</li> </ul>	and discriminator netwo vith Least-Square GAN a	orks using linear layers and Wasserstein GAN -	in PyTorch and TensorF – gradient penalty(WG	AN-GP) loss functions.
Side Project: Image Captionir	ng [Project]	_		-Mar. 2018
<ul> <li>Implemented the forward p</li> <li>Used pre-downloaded VCC</li> </ul>	535 and backward pass 516 features from COCO			

## SKILLS AND AWARDS

**Languages**: Excellent in Python; Proficient in C/C++ , R, SQL, Ruby, JavaScript, HTML/CSS and Shell. **Frameworks**: PyTorch, fastai, torch-geometric, TensorFlow, Keras, Pandas, OpenCV, ArcGIS, scikit-learn, gym, Rails, Flask. **Research Interests**: Intersection of Computer Vision and Natural Language Processing, Generative Modeling, 3D Computer Vision, Few/Zero Shot learning, Robotics, Deep Learning for GIS.

Awards & Achievements: Intel Early Innovation research grant of \$5000 (*Jun 2018*), 7th in ZS Young Data Science Challenge 2018, 4th in NSIT Fintech Hackathon 2018, Finalist Smart India Hackathon 2018, Best in academics (INR 11k) (*Oct. 2015*)

## **COMMUNITY WORK**

**Blogs**: Implementing SPADE using fastai [Link], Swimming pool detection and classification using deep learning [Link], Not just another GAN paper — SAGAN [Link], Tackling Adversarial Examples : Introspective CNN [Link].

**Intel Student Ambassador for AI**: Organized Intel Sponsored meetups highlighting Intel optimized deep learning hardware. Presented and held workshops at colleges encouraging students to learn AI and deep learning. (*Dec. 2017 -*) [Intel Blog] **AI Saturdays Delhi Chapter Ambassador**: Organized over 20 meetups in two cycles of AI Saturdays covering various deep learning courses like Stanford's CS231n and CS224n, fast.ai etc. (*Dec. 2017 - Dec. 2018*) [Press]