in/in/ranka47 | **Q**/ranka47

		ACADEMIC QUALIFICATIONS		
2018-19		cience in Applied Computing University of Toronto	<b>GPA:</b> 4.0/4.0	
		rning and Data Mining, Machine Learning for Health, Natural Language Computing ractive Computing: AR/VR, Communication for Computer Scientists, Technical Entre	preneurship	
2013-17	-	Technology Indian Institute of Technology Guwahati	<b>GPA:</b> 8.86/10.0	
_010 17		Science and Engineering		
		sion using ML, Probability Theory and Random Processes, Data Structures, Algorithm	S	
	Parallel Com	puting, Theory of Computation, Operating Systems, Networks, Databases		
T		TECHNICAL PROFICIENCY		
Languages:		C/C++, Python, Scala, Javascript	Arrasha Cravila	
ML & BigData Tools: Miscellaneous:		Tensorflow, OpenCV (C++/Python), PySpark, Google Cloud, AWS services	, Apache Spark	
Tools and IDE:		<b>Docker, Git</b> , Django, CellProfiler, MySQL, LAT <sub>E</sub> X, Java Native Interface		
		Apache JMeter, Visual Studio, JupyterLab		
Operatir	ng Systems:	GNU/Linux, MacOS, Windows		
MORO		EXPERIENCES		
		& Applied Scientist 2 BI, Internal Compute and Development Tools	JULY 2021 – Present	
• Owner	of module fo	r diversifying and re-ranking recommended documents for a new product cal	lled PRISM	
		modular code from the scratch. Shipped to en-* market		
		Classifier for identifying relevant user signals for personalization		
HUAWE	TECHNOL	OGIES (Noah Ark Lab) - Associate Researcher	FEB 2020 – JULY 2021	
<i>Tools Used:</i> C++, Python, Tensorflow, Tensorflow Lite, Android JNI, HiAi Platform, ONNX				
		ection and object detection for android systems		
		o intern students working on different ML inference projects		
		siness detection system, featured as a major product by Huawei CBG CEO		
• Consul	lted on multip	ple projects for architectural design and embedded systems related optimization	on	
PHENOMIC AI - Machine Learning Research Intern       MAY 2019 – DEC 20			MAY 2019 – DEC 2019	
Tools Used: Python, CellProfiler, AWS services				
<ul> <li>Developed and deployed a robust and scalable segmentation and feature extraction pipeline for microscopic images.</li> <li>Classified and analysed different cells identified through segmentation using supervised and semi-supervised techniques.</li> </ul>				
		lated the contact-dependent effects between lung cancer cells and fibroblasts.	supervised techniques.	
SAMSUNG RESEARCH INSTITUTE - Software Engineer			E 2017 – AUGUST 2018	
	<ul><li><i>Tools Used:</i> C++, Tensorflow Lite, Apache Spark, Scala</li><li>Devised an offline tracking method for residents based on sensors in the house. Published in a Springer conference.</li></ul>			
		generic preprocessing script for raw sensor-based data. Reduced time from tw	0	
<ul> <li>Development of voice activity model trained on TIMIT and in-house dataset for a resource-constraint embedded device.</li> </ul>				
		ung Awards for preprocessing script and significant improvement in validatio		
		PROJECTS		
k-space	ΙΜΡΙΙΤΑΤΙΟ	N AND MRI RECONSTRUCTION	JAN - APR 2019	
		<i>i</i> ,Dept. of Computer Science, University of Toronto	JIIN 111 X 2010	
	-	utoencoder based U-Net and perceptual GAN to impute k-space to improve	the process of MRI re-	
		d the DAE-UNet method and trained using fastMRI dataset.	the process of third re	
TEXT R	FADARIIITY	( ANALYSIS USING LANGUAGE MODELS	FEB - APR 2017	
		pt. of CSE, IIT Guwahati	1 LD - 711 K 2017	
		ervised approach for predicting text readability scores. Implemented deep-l	learning and statistical	
		results with vocabulary-based and syntactic approaches.	learning and statistical	
			CEDT NOV 2016	
		<b>ANSFORMER NETWORKS FOR EGOCENTRIC IMAGES</b> f CSE, IIT Guwahati	SEPT - NOV 2016	
		transformer networks (introduced in Google DeepMind) for object recognition	and activity prodiction	
		is and evaluating it on GTEA dataset. The model showed better results than a tr		
		-		
		ACHIEVEMENTS & TALKS		

- Received MITACS Accelerate Funding for the internship at Phenomic AI.
- Ranked 11 in Microsoft Build the Shield 2015, a team based event on Software and Network Security
- Qualified for the Onsite ACM-ICPC (Amritapuri) 2014 (India), a competitive programming contest

• Delivered talks on various topics (IITG Network Architecture, Introduction to Programming, Object Oriented Programming Structure) as undergrad student in IIT Guwahati