Plot No: 557/4713 Nigam Vihar, Patia Bhubaneswar, Khordha Odisha, India - 751031

# DEEPAK K. PRADHAN

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# **EXPERIENCE**

Arkray Healthcare Pvt. Ltd. - R&D May 2018 – Present **Software Engineer** · Working in the domain of Medical Image Analysis, Bio-Informatics & Deep Learning. **Software Engineer** Blinkware Technology Sdn. Bhd. - R&D (Malaysia) Jan 2018 – April 2018 • Worked in the domain of Computer Vision and Deep Learning. **Visiting Research Scholar** Indian Institute of Technology (IIT) Mandi May 2017 - July 2017 • Developed semantic feature vector for scene images using deep learning techniques. **Summer Intern** IIT Mandi May 2016 - July 2016 • Deployed Deep Neural Networks and evaluated them using artificial and real world data. National Institute of Technology (NIT) Goa **Teaching Assistant** Aug 2015 - July 2017

• Urine Sediment Analysis: A deep learning based microscopic urine sediment recognizer.

• Mentored students for C-Programing Lab, Pattern Recognition & Neural Networks.

- SMN representation for Scene Images using Pseudo-concepts & ConceptNN (2017). A Semantic multinomial representation for scene images has been developed with the pseudo-concepts from deep CNNs and Concept neural network. (Used Python, Matlab, Scikit learn, Numpy, Tenserflow, Caffe.)
- Pattern Classification (2016). Different patterns of signals are classified using machine-learning techniques like Bayesian classifiers, GMMs, SVMs and Neural networks. (Used Matlab, Python, Matplotlib, SVM Torch)
- Odia Language Stemmer. A stemmer for Odia language. It finds the stem word for every word in Odia, which plays key role in indexing of the all-corresponding inflections of the stem word. (Used *Java*, *MySQL*.)

#### **PROFESSIONAL SKILLS**

• Languages: Matlab, Python, R, C/C++ Concepts: Deep Learning, Machine Learning, Computer Vision, NLP

### **EDUCATION**

M.Tech	Computer Science & Engineering		National Institute of Technology Goa
B. Tech	Computer Science & En	gineering	ITER, Siksha 'O' Anusandhan University
ACHIEVEMENTS AND AWARDS		INTERNATIONAL TRAVELS	
· Vice President: NIT Goa	Toastmasters Club		
· Member of Organizing Committee: Technical		Business Trip to Japan	
Festival, NITGoa			
• Rajyapuraskar: Awarded for the pursuit of service		<ul> <li>MICCAI Conference to China</li> </ul>	
to mankind as a Scout			

## **INVITED TALKS / WORKSHOPS**

- "Machine Intelligence and learning with Anaconda and Python" at Govt. Engg. College Jhalawar, Rajasthan during  $27^{th}$   $28^{th}$  April 2018
- "Introduction to Machine Learning and Computer Vision" at DBATU, Lonere, Maharashtra on 2<sup>nd</sup> Aug 2019
- "Artificial Neural Networks and it's application for Machine Learning" at VSSUT, Burla, Odisha during 16th-17<sup>th</sup> Nov 2019

#### PATENT

• Method and System for Image Enhancement of Microscopic image. Application No: JP2019-30720 (\*Filed)

#### **PUBLICATIONS**

- *MicroGAN: Size-invariant Learning of GAN for Super-Resolution of Microscopic Images* (with Srishti Gautam, Prakash Chhipa & Nakajima Shinya) published in **COMPAY**, **MICCAI 2019**, Shenzhen-China. (Springer)
- Deep Spatial Pyramid Match Kernel for Scene Classification (with Shikha Gupta, Veena T. & Dileep A. D.) published in ICPRAM 2018, Portugal. (SCITE Press)
- Semantic Multinomial Representation for Scene Images using CNN-based Pseudo-concepts and Concept Neural Network (with Shikha Gupta, Veena T. & Dileep A. D.) published in NCVPRIPG 2017, India. (Springer)

#### **PROFESSIONAL MEMBERSHIPS**