Akkshita Trivedi

✉ akkshitatrivedi@gmail.com
✉ trivedi.2@iitj.ac.com
🔗 https://www.linkedin.com/in/akkshita-trivedi-b59a86137/

Education

2019 – · · · · 🔖 **PhD Computer Science Engineering, Indian Institute of Technology, Jodhpur, Rajathan, India.**
First Class with 8 CGPA Thesis title: *Document Intelligence: problems and challenges*.

2016 – 2018 🔖 **M.Tech Information and Communication Technology, University of Rajasthan, Jaipur, Rajasthan, India.**
First Class Honours. with 76.5 percentage Thesis title: *Implementation of Fundamental Techniques of Image Processing and Image Segmentation using Deep Learning based Approach.*

2010 – 2015 🔖 **B.Tech Electronics and Communication, JECRC UDML College of Engineering, Rajasthan Technical University Kota, Rajasthan.**
First Class. with 67.5 percentage.

Employment History

17th Jun 2019 – 21st July 2019 🔖 **Senior Research Fellow** Computer Science Engineering Department, Indian Institute of Technology, Jodhpur.

13th Sep 2018 – 14th Jun 2019 🔖 **Project Assistant - II** Cognitive Computing Group, CSIR - Central Electronics Engineering Research Delhi.

05th Oct 2016 – 31th Dec 2017 🔖 **Engineer**, Raise Solar Energy, Jaipur, Rajasthan.

01st Feb 2015 – 01st Oct 2016 🔖 **Engineer**, Rays Power Experts Pvt.Ltd. Jaipur, Rajasthan.

Research Publications: Conferences

1. A. Trivedi, D. Ganguly, R. Mallick, B. Singh, T. Patnaik, S. Chaudhury. "End to End Transformer based Architecture for Text Recognitionfrom Document Images", 2021 12th Indian Conference on Computer Vision, Graphics and Image Processing **Communicated in ICVGIP Workshop 2021**

2. M. Sharma, A. Ray, A. Upadhyay, M. Makwana, A. Trivedi, A. Saini, S. Chaudhury. "An End-to-End trainable framework for joint optimization of document enhancement and recognition", 2019 15th IAPR International Conference on Document Analysis and Recognition **Accepted in ICDAR 2019**

3. M. Sharma, P. Mukherjee, M. Makwana, A.P. Singh, A. Trivedi, A. Upadhyay, B. Lall, S. Chaudhury. "DSAL-GAN: Denoising based Saliency Prediction with Generative Adversarial Networks", https://arxiv.org/abs/1904.01215.

Internship

1. **CSIR-CEERI Pilani, India** internship on "Implementation of Fundamental Techniques of Image Processing and Image Segmentation using Deep Learning based Approach" (January, 2018 - July 2018).

2. **DRDO, Jodhpur, India** internship on "NIMA decoder using PIC Microcontroller and GPS System" (June, 2013 - August 2013).

Skills

Programming Tools	▉ Pytorch, Tensorflow, Keras, Matlab.
Coding	▉ Python, C, C++.
Misc.	▉ Academic research, publishing and Team Building.

Projects Completed

▉ Software as a service for OCR system for Odia Documents in IIT, funded by Miety.

▉ Representation Generation for Efficient Retrieval Of Bangla Document Images in Digital Libraries in IIT, funded by MHRD.

▉ Information Access from Document Images of Indian languages in CSIR-CEERI, funded by Meity.

Miscellaneous Experience

▉ Got accepted into **CVIT 5th Summer School on Artificial Intelligence**.

▉ Presented Pitch on Industry Day 2021 at IIT Jodhpur on Document on Smart Infrastructure theme **Saathi: Your local bhaasa friend**.

▉ Attended Workshop on **Deepstream and TensorRT** organized by NVIDIA

▉ **Implementation of Fundamental Techniques of Image Processing and Image Segmentation using Deep Learning based Approach** (M.Tech Project, Januray 2018-July 2018).

▉ **Application of MATLAB in Engineering**, Short term course in MNIT, Jaipur.

▉ **Gesture Controlled Robot** (B.Tech Project) in JECRC UDML College of Engineering.

▉ **Sequential glowing LED for different purpose using micro controller assembly language** (B.Tech Project) in JECRC UDML College of Engineering.

▉ **Line Follower Robot** (B.Tech Project) in JECRC UDML College of Engineering.

Topics to be explored in future

Documents Image Analysis, Natural Language Processing, transformers, Deep Generative Adversarial Network