

Nithish Divakar

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Education

- M tech in Computational Science *from* IISc Bangalore
- B tech in Computer Science *from* GEC Idukki

Work experience

- [2017-] Computer Vision Research Engineer, Cogknit Semantics Bangalore
- [2016-2017] PhD Candidate, VAL lab, IISc Bangalore
- [2015-2016] Project Assistant, VAL lab, IISc Bangalore

Skills

Deep Learning algorithms for computer vision

- Object Detection • Image classification • Transfer Learning
- Generative Adversarial Networks • Image Captioning
- Semantic Segmentation • Face Detection

Software and frameworks

■ python ■ tensorflow ■ numpy ■ keras ■ opencv
■ pandas ■ Flask ■ jupyter ■ C
□ javascript □ d3js □ reactjs

Projects

MiDAS A metadata creation system for media content. Collected and cleaned data, trained the models and implemented the full deployment pipeline for *Object tagging, face recognition and detection* and *scene recognition*.

nabla A deep learning framework implementation with a core aim to explain the details of implementing one. Used literate programming methodology and python. url:github.com/nithishdivakar/nabla

access.ai A video captioning system. Implemented shot boundary detection and key frame extraction. The system uses captions from image captioning model on the key-frames to compute semantic description for entire shot. Also implemented onscreen text extraction.

more see my portfolio page at everythingproject.in/portfolio

Publications

- [1] “Domain Adaption of image Captioning Model for Video Descriptions” In *NVIDIA GTC* 2018.
- [2] “Deep Clean: GPU powered Speech Denoising using Adversarial Learning” In *NVIDIA GTC* 2018.
- [3] “Image Denoising: and Adversarial approach”. In *CVPR workshop on NTIRE* 2017.
- [4] “Denoising in a Jiffy: A fast and GPU friendly algorithm for image denoising”. In *SPCOM* 2016.
- [5] “Primal Dual Affine Scaling on GPUs”. In arXiv preprint arXiv:1502.03543