SAI SAMARTH R PHAYE

Research Intern SMC Lab, School of Computing National University of Singapore

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EDUCATION

Qualification	University	Institute	Year	Grade/%
B. Tech.	IIT Ropar	IIT Ropar	2014-2018	7.28/10
Intermediate/+2	CBSE	HHEA Raipur	2013-2014	91.6/100
Matriculation	CBSE	HHEA Raipur	2011-2012	9.6/10

PUBLICATIONS

- Sai Samarth R Phaye, Emmanouil Benetos and Wang Ye. SubSpectralNet Using Sub-Spectrogram based Convolutional Neural Networks for Acoustic Scene Classification. Submitted in 14th IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP) 2019 [arXiv] [GitHub]
- Sai Samarth R Phaye*, Apoorva Sikka*, Abhinav Dhall and Deepti Bathula. Multi-level Dense Capsule Networks. Accepted in 14th Asian Conference on Computer Vision (ACCV2018), Perth, Australia, 2 6 December 2018 [arXiv] [GitHub]
- Sai Samarth R Phaye, Love Mehta and Mukesh Saini. The One Man Show. Accepted in 19th IEEE International Symposium on Multimedia (ISM2017), Taichung, Taiwan, 11 13 December 2017 [Paper]

ACHIEVEMENTS

- Got selected for Summer Research Program 2017 from students all over the world, which is an internship
 program at National Tsing Hua University, Taiwan.
- "Hack In Punjab" All India Level Hackathon Event winner, organised by Top Careers And You, Sept'15.
- Secured a rank of **1662** (out of **1.3 million candidates**) in Joint Entrance Exam (JEE Mains and Advanced combined), 2014.

KEY ACADEMIC PROJECTS

- Optic Disc/Cup Segmentation and Glaucoma Classification [Report] Medical Image Processing (Guide: Dr. Deepti Bathula, May July'18)
 - Proposed a **two-level deep learning system**, in which the first sub-network localizes the disc region in the original sample which is further used by finer network for segmentation of cup and disc.
 - **Qualified for on-site round** of REFUGE Challenge which was held at MICCAI, Spain in 2018. Co-authoring for the challenge review paper (will be submitted in **IEEE Transactions on Medical Imaging**).

TECHNICAL SKILLS

- Programming/Scripting Languages Python, C++, JAVA, JavaScript, jQuery, SQL
- Deep Learning Libraries Keras, TensorFlow
- Operating Systems Linux (Ubuntu), Windows
- Tools Jupyter Notebook, MATLAB, Eclipse, LATEX, Adobe Photoshop

RELEVANT COURSEWORK

• Computer Vision, Multimedia Systems, Digital Image Processing, Computer Graphics, Database Systems, Data Structures, Computer Architecture, Discrete Mathematics, Probability Theory, Operating Systems

OTHERS

- Hashtags: #ComputerVision #SoundAndMusicComputing #DeepLearning #MachineLearning #MultimediaProcessing #WebDevelopment #AndroidAppDevelopment #AlgorithmDevelopment #DataStructures
- Internships: Interned in University Paris-Est Marne-la-Vallée, Paris during the summers of 2016 and 2017.
- Web-Designing: Designed 4+ official websites for IIT Ropar, March'15 April'15.
- Strengths: Good Teamwork, Good Communication Skills, Likes to Learn New Topics, Logical and Optimistic Approach.
- When not doing research, I am probably composing music or playing badminton.
- Member of Guitar Ensemble, National University of Singapore (GENUS).
- Spoken Languages: Fluent in English, Hindi; Beginner in French.

REFERENCES

- A/Prof. Wang Ye, Associate Professor, School of Computing, National University of Singapore, Singapore
 - o Contact: +65 (0) 8107 1462, wangye@comp.nus.edu.sg
- Dr. Emmanouil Benetos, Senior Lecturer, School of EECS of Queen Mary University of London, UK
 - $\circ\,$ Contact: +44 (0) 20 7882 6206, emmanouil.benetos@qmul.ac.uk
- Dr. Deepti Bathula, Assistant Professor, Indian Institute of Technology Ropar, India
 - o Contact: +91 (0) 95011 96606, bathula@iitrpr.ac.in
- Dr. Abhinav Dhall, Assistant Professor, Indian Institute of Technology Ropar, India
 - o Contact: +91 (0) 84279 94600, abhinav@iitrpr.ac.in