

SAI SAMARTH R PHAYE

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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
 - 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
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- **Dr. Deepti Bathula**, Assistant Professor, Indian Institute of Technology Ropar, India
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- **Dr. Abhinav Dhall**, Assistant Professor, Indian Institute of Technology Ropar, India
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