

Ashutosh Chaubey

Computer Science Junior

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Areas of Interest

Deep Learning, Machine Learning

Education

- 2017 - 2021 **Bachelor of Technology**, *Computer Science and Engineering*, Indian Institute of Technology, Roorkee.
- I Semester **CGPA 9.81/10.0**
 - II Semester **CGPA 9.83/10.0**
 - III Semester **CGPA 9.78/10.0**
 - IV Semester **CGPA 9.78/10.0**
 - V Semester **CGPA 9.69/10.0**
- 2017 **All India Senior School Certificate Examination**, *Delhi Public School, Bhilai*, **97%**.
(Central Board of Secondary Education)
- 2017 **All India Secondary School Examination**, *Delhi Public School, Bhilai*, **CGPA 10.0/10.0**.
(Central Board of Secondary Education)




Publications

- 2019 **A GAN based Ensemble technique for Automatic Evaluation of Machine Synthesized Speech**, Published in the 5th Asian Conference on Pattern Recognition (ACPR), Auckland, New Zealand.

Internships

- May 2019 - July 2019 **Machine Perception of Human Pose using Deep Neural Networks**, Video Analytics Lab, Indian Institute of Science, Bengaluru.
- Human pose prediction on synthetic dual person video dataset

Projects

- Jan 2020 - Present **Explainability of Neural Networks in Video Classification**, *under Prof. R. Balasubramanian*.
- Performing occlusion sensitivity on neural networks trained for Video Classification
- Jan 2019 - April 2019 **Automatic Evaluation of Machine Synthesized Speech**, *under Prof. R. Balasubramanian*.
- Using a Generative Adversarial Network based network to evaluate machine synthesized speech
 - Compared and analysed the proposed method against current evaluation techniques
- Feb 2019 **Variational Autoencoder for MNIST**, .
- Implemented the Auto-encoding Variational Bayes paper using pytorch framework
 - Carried out experiments with the generations using MNIST dataset
- Dec 2018 **One shot learning using Siamese networks**, .
- Implemented "Siamese Neural Networks for One Shot Image Recognition" paper in pytorch framework using omniglot dataset
 - Done experiment with different optimizers and train/test split
- Nov 2018 **Classifying Names with Character level RNN**, .
- Trained a classifier using vanilla RNNs which can classify the nationality of person based on his name

Academic Achievements

- 2017 Secured **All India Rank 402** in **JEE-Advanced** out of 0.2 million candidates
- 2017 Secured **All India Rank 575** in **JEE-Main** out of 1.2 million candidates
- 2017 Secured place among **National Top 1%** in **National Standard Examination in Chemistry** and **National Standard Examination in Physics**
- 2016 Shortlisted for the **Kishore Vaigyanik Protsahan Yojana Fellowship award**
- 2015 Awarded **National Talent Search Examination Fellowship** by **NCERT** under the HRD ministry, Govt. of India

Positions of Responsibility

2018 - present **Core Member, Vision and Language Group**, ACM IIT Roorkee Chapter

Skills

Computer Languages Python, C/C++, Java

Software Packages Tensorflow, Pytorch, Matplotlib, Scipy, Numpy, Opencv-python, Node.js, Django

References

Dr. R. Venkatesh Babu Associate Professor, Indian Institute of Science, Bangalore

Dr. R. Balasubramanian Professor, Indian Institute of Technology, Roorkee