Sanyam Agarwal

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EDUCATION

INDIAN INSTITUTE OF TECHNOLOGY, KHARAGPUR

B.Tech in Computer Science
Graduated in May 2016
Overall GPA: 9.0/10

COURSEWORK

RELEVANT COURSES

Matrix Algebra
Probability and Statistics
Discrete Structures
Algorithms - II
Machine Learning
Artificial Intelligence

Relevant GPA: 9.67/10

PUBLICATIONS

[1] {Sanyam Agarwal, Mayank Singh, Soham Dan}, Pawan Goyal, Animesh Mukherjee. AppTechMiner: Mining Applications and Techniques from Scientific Articles. In JCDL 2017. (First three authors have equal contribution)

`https://arxiv.org/abs/1709.03064`

PATENTS

[2] "Building Efficient, Robust, Maintainable and Scalable Automation Systems". Status: Pending

MISC

GITHUB

`https://github.com/sanyam5`
• Implemented Interpretable Counting for Visual Question Answering (ICLR '18)
• Implemented Skip-Thought Vectors. (NIPS '15)
• Implemented Attentive Recurrent Comparators (ICML '17)

BLOG

`http://sanyam5.github.io`
Posts describing my experiments with techniques in Machine Learning.

EXPERIENCE

GEORGIA INSTITUTE OF TECHNOLOGY | Research Scholar

Sept 2018 – Present | Atlanta, USA
Advisors: **Prof. Dhruv Batra** and **Prof. Devi Parikh**
Working in projects in Machine Learning at the intersection of vision and language.

INDIAN INSTITUTE OF SCIENCE | Research Intern

Nov 2017 – Jul 2018 | Bangalore, India
Worked in Semi and Unsupervised Learning. Developed a method for training Skip-Thoughts without using auto-regressive decoders. Worked with GAN and BiGANs for representation learning.

SOROCO | Platform Engineer

May 2016 – Oct 2017 | Bangalore, India

- Led a team which uses Deep Learning to solve key problems in automating enterprise processes
- Designed and implemented a novel, patent-pending enterprise grade Distributed Systems framework for developing automation systems which is operational at Fortune 500 companies[2].

FACEBOOK | Software Engineering Intern

May 2015 – July 2015 | Menlo Park, California
Worked with the configuration management team in the Core Engineering group. Found bottlenecks in existing architecture. Parallelized configuration checking service by splitting into master and slaves, speeding it up by a **1000** times.

PROJECTS

ROBO SOCCER, IIT KHARAGPUR | Head, AI Team

March 2013 – May 2016 | Kharagpur, India
Worked with Prof. Jayanta Mukhopadhyay to create a framework for learning robot control policies for playing soccer. Won **Bronze Medal** in FIRA 2015, South Korea.

AWARDS & HONOURS

2013	**Aditya Birla Scholar** . Awarded to just 15 every year students from India.
2013	**OPJEMS** Scholar. Awarded to less than 1 % of the applicants.
2009	**NTSE** Scholar. Awarded to less than 1 % of the applicants.
2011	**KVPY** Scholar. Awarded to less than 1 % of the applicants.
2012	All India Rank of **332** in **IIT - JEE 2012** . Equals a percentile of **99.95**
2014	ACM-ICPC regional's at Amritapuri, India. Got rank 32 among the top 400 teams
2015	Got rank **386** in Round 2 of **Google Code Jam 2015** .

MISCELLANEOUS

2016	Won **Gold** medal in intra-college **Dramatics** contest.
2015	**Founded** and **taught** in an group for Algorithm enthusiasts.
2013	**Leader** of the National Service Scheme(NSS) unit for awareness on **social issues** .
2011	Chosen **Science Secretary** at School. Designed and coordinated inter-school experimental physics competition.

- Qualified for **INMO** (Indian National Mathematical Olympiad) training camp.
- **Topped** the city of **New Delhi** in several Mathematics, Science and Computer Science olympiads.