

Gaurav Gupta

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ACADEMIC BACKGROUND

Indian Institute of Technology (BHU), Varanasi

July 14 - Current

B.Tech in Computer Science and Engineering (Current CPI: 9.34)

Semester	I	II	III	IV
SPI	9.75	8.77	9.66	9.25
CPI	9.34			

New Green Field Public School (CBSE board), Indore, India

2014

All India Senior School Certificate Examination (Percentage: 93.6%)

RESEARCH INTERESTS

Deep learning, Reinforcement learning, Computer vision

TECHNICAL SKILLS

Languages Python, JavaScript, C, C++

Technologies TensorFlow, Caffe, Keras

PROJECTS

Google Summer of Code (GSoC)

May 16 - Aug 16

Worked with CloudCV (Machine learning and perception lab, Virginia Tech) to develop an IDE for building deep learning models. The [IDE](#) provides a very simple drag and drop interface to create and configure DL model and support export / import of model configuration file for Tensorflow, Caffe and Keras.

Grasping of moving objects with DeepRL

Dec 16 - Feb 17

Created a game environment implementing a 4 DOF robotic arm. Trained the agent using deep reinforcement learning to capture moving objects. Used recurrent neural networks to capture long term dependencies and human supervised training for faster convergence

Cognition of robot using Q-learning based SOM

Aug 16 - Dec 16

Created a robotic simulation for pick and place tasks. Control of the robot was done with Q-learning and Planning and learning of experiences using SOM Model

ACHIEVEMENTS

Winner of Microsoft Code.Fun.Do oncampus hackathon 2017

Microsoft Imagine Cup India national finalist 2016

[Memento](#) : AI assistant for human memory

[SecureTM](#) API (easy mobile no. verification of users through OTP)