Gaurav Gupta

(+91) 7860-931-204
gaurav.gupta.cse14@iitbhu.ac.in

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++, HTML, CSS
Technologies   Caffe, Keras, TensorFlow, Mean stack
Operating Systems   Ubuntu, Android

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 DeepRL on TensorFlow. 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

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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)