

Vikas Yadav

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EDUCATION

IIT ROORKEE

BTECH IN COMPUTER SCIENCE

Expected May 2017

Cum. GPA: 8.49 / 10

Major GPA: 8.63 / 10

COURSEWORK

UNDERGRADUATE

Design and Analysis of Algorithms

Discrete Structures

Machine Learning

Artificial Intelligence

Compiler Design

Operating Systems

Database Management

Computer Networks

Theory of Computation

HONOURS

Advanced Graph Theory

ONLINE

CS231n - Convolutional Neural Networks
for Visual Recognition, Stanford

SKILLS

PROGRAMMING

C++ • Python • JavaScript

PHP • Git • \LaTeX

MACHINE LEARNING

TensorFlow • Thenao • Lasagne

SOFTWARE PACKAGES

Github • Matlab • MySQL

Wolfram Mathematica

EXPERIENCE

MICROSOFT IDC | SOFTWARE ENGINEERING INTERN

9th May 2016 – 9th July 2016 | Hyderabad

- Designed a framework to allow Azure IaaS VMs to take app-consistent backups for various workloads running in background.
- The script also takes advantage of native app API's to put the app in a consistent state and thereby allowing the VM Snapshot to be app consistent.
- The solution was implemented and tested for Azure Linux IaaS VMs.

PROJECTS

CAPTION BASED REGION EXTRACTION | JULY 2016 – PRESENT

Dr. Partha Pratim Roy | Deep Learning Research

Worked with Dr. Partha Pratim Roy and designed a RPN + CNN + LSTM network along with skip-thought vectors to localize the region in the input image best suiting to the input description. Submitted a paper in British Machine Vision Conference (BMVC 2017) and awaiting decision.

2048 AI | JAN 2015–FEB 2015

AI

Developed a terminal version of the famous 2048 game using C++ and an AI using minimax algorithm along with alpha-beta pruning to solve it.

ALGORITHMIC CHALLENGES CURATION | JULY 2015–PRESENT

Algorithms

Curation of problems and writing editorials for algorithmic programming contests held on CodeChef, Indian Programming Community(IPC) and univ's internal contests on CodeVillage.

GESTURE RECOGNITION | AUG 2014 - OCT 2014

Computer Vision

Built a gesture controlled music player using OpenCV and PyMouse, which takes input from hand gestures.

AWARDS

- Got selected for **ACM ICPC CHENNAI ASIA 2015** onsite round with a national rank of **2/1000** in the online round and secured a national rank of **15/100** in the final round.
- Got selected for **ACM ICPC AMRITAPURI ASIA 2015** onsite round with a national rank of **4/1000** in the online round and secured a national rank of **40/400** in the final round.
- Got selected for and attended ICPC Summer Training Camp (2015), Bangalore.

EXTRA CURRICULAR

2014–Present	Coordinator	Programming and Algorithms Group, IIT Roorkee
2014–Present	Programmer	Online Sport Competitive programming
2013–2014	Developer	Software Development Section(SDS), IIT Roorkee