Utkarsh Gupta

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Education

2014–2018 | **Bachelor of Technology** | Motilal Nheru National Institute of Technology Allahabad
Information & Technology - **8.65/10 GPA**

2013–14 | **Intermediate** | HAL School Korwa, Amethi
Science stream, with Physical Education -**94%**

Work Experience

November 2015– Present | **Open Source Contributor** | pgmpy:A Python package for Probabilistic Graphical Models
Wrote BIF reader ,BIF writer and its test suit. Rewrote Joint Probability Distribution class and its test suit.Implemented methods related to I-equivalence. Fixed compatibility issues with python 2.7.x .

October 2015– Present | **Antidote DM** | A download manger written in Python
Wrote a GUI software in python that can Download files from web, and with some special features that can search and download from specific sites . Implemented as a part of Softablitz.

October 2015 | **Character Classifier and Digit recognizer** | A machine learning script
Wrote a python script that classifies character in an image using support vector machine (This was implemented as a part of Logical rhythm). I implemented a deeplearning 2d-convolutional neural network using tensorflow API for digit recognition, accuracy obtained was 99.1% (on testing dataset). I was ranked 84th out of 1100+ teams (on kaggle digit recognizer, as of April 2016).

April 2015– Present | **Pyrag Sports API** | A command line tool with web API
This tool was implemented as part of Hack In the North (IIIT-A). Our team implemented a command line tool with web API to get latest updates for football and cricket.

Achievements

October 2015 | **Third in Softablitz** | A software development competition in Tech-fest of MNNIT
Implemented the Antidote DM

October 2015 | **Runner up in Logical Rhythm** | Machine learning event in Tech-fest of MNNIT
Wrote a python script that classifies character in an image using support vector machine. Also wrote a python script for context based search using TF-IDF .

Programming Languages and Tools

Proficient | Python, C, Vim, Git

Familiar | C++, R, Octave, OpenCL (C/C++/Python), Cuda, Linux Utilities, LaTeX

Course Work

Mathematics | Linear Algebra, Transform Calculus, Discrete Mathematics, Numerical Solution to Ordinary and Partial Differential Equations, Partial Differential Equations, Vector Calculus

Computer Science | Programming and Data Structures, Shell scripting, Algorithms, Computer Organization, Automata theory

Electronics | Analog and Digital electronics, Signals and System, Communication theory

Open Course-ware | Machine Learning, Finding Hidden Messages in DNA-I, Heterogeneous system Programming, Introduction to R

Miscellaneous | Technical Writing