

AKSHAY NAGPAL

New Delhi, India

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EDUCATION

THE NORTHCAP UNIVERSITY (Formerly ITM UNIVERSITY, Gurgaon)

2012 – 2016 (Expected)

Bachelor of Technology (Computer Science and Engineering) **CGPA: 8.41** / 10 (till 6th semester)

- Recd. Letter of Appreciation from HOD (Comp. Sci. Dept.) for teaching Web Development to a class of 50 students.
- Website Developer and Administrator for *ENACTUS ITMU* [Dec '12 – Jun '13]
- Held technical & non-technical positions at both technical and cultural fests. [2013]
- Represented Ghana as a delegate in *ITM University Model United Nations 2012*

HANSRAJ MODEL SCHOOL, New Delhi

2000 - 2012

Secured 83% in Class 12 and CGPA 9.6 / 10 in Class 10

- Courses: Physics, Chemistry, Math, English, and Computers

HONORS & AWARDS

Rio+20 India Program (United Nations Conference on Sustainable Development)

April 2013

Certificate of Excellence in Short term course study in Sustainable Development.

City Innovates Scholarship Series

March 2013

Certificate of Merit for being in top 8.7% among all students at National Level

INTERNSHIPS

MEDIA LAB ASIA

June – July 2015

Research and Development Intern

- Built a focused search engine for research journals as a part of a larger medical analysis application.
- It gave search results according to string matching and the UI was built using Shiny.
- Collected usage data by implementing monitoring of clicks and search box inputs which will be used to make later searches intelligent by the organization.

KARMATECH MEDIAWORKS PVT. LTD.

May – June 2014

Web Development Intern

Contributed in various live projects of the organization in the following domains:

- Integrated Social Login APIs & form input validation using JavaScript & PHP
- Designed and implemented MySQL Stored Procedures
- Added media upload and thumbnail creation functionality using PHP FFMPEG library

PROJECTS

Tic Tac Toe (Python)

Aug 2015

Applied Minmax algorithm and decision tree to make an **unbeatable** computer player against human.

RgScholar (Open Source R package)

June - July 2015

API to integrate Google Scholar search functionality into R applications

MJAR (Open source R Package)

June 2015

API to fetch data from Medical Journal of Australia

Number Recognition using K-Means Clustering (Python)

Mar-June 2015

Implemented K- means Clustering to determine the digit in an image. (Received A+ grade).

Research paper: **Akshay Nagpal**, Number Recognition using K-means Clustering (Submitted, under review)

Career Path Suggestion using String Matching and Decision Trees (Python)

Jan-Mar 2015

Suggest the most appropriate career path for the person using algorithms containing majorly decision trees and string matching using FuzzyWuzzy Python library. The algorithms were applied on a dataset obtained from the LinkedIn API.

Web Page Analysis (Python)

Dec 2014

Implemented Google's Page Rank algorithm on a small scale by web scraping URLs within a small domain group. URLs were collected using BeautifulSoup Python library & ranked using Stanford's Page Rank Algorithm.

OTHER OPEN-SOURCE CONTRIBUTIONS

Contributed to the following Github repositories: three.js, rvest, IEEEER and rentrez

PUBLICATIONS AND PRESENTATIONS

- **Akshay Nagpal** and Supriya P Panda. Career Path Suggestion using String Matching and Decision Trees. *International Journal of Computer Applications* Volume 117 (Issue 7): 32-34 (May 2015)
- **Akshay Nagpal**, Avdesh Bhardawaj, Akash Gupta & Ved Prakash Bhardwaj. A Policy Proposal for Implementation of E-Waste Regulations in India. Poster presentation at *National Conference on E-Waste Sustainability (BCAS, University of Delhi)*

RELEVANT COURSES

Artificial intelligence, Data Mining and Warehousing, Advanced Database Management Systems

TECHNICAL SKILLS

Advanced: Python, R, JavaScript, HTML5, PHP, MySQL, **Intermediate:** C, C++, **Basic:** Java, MS Word & PowerPoint, Adobe Premiere & InDesign CS6.

EXTRA CURRICULAR & VOLUNTEER EXPERIENCE

- Volunteer at **Perna NGO, Dwarka** Feb – Mar 2015
Motivated especially abled students (age group 4 to 16) by interacting with them regarding personal and career problems.
- Volunteer at **Road Safety Awareness Program** Dec 2014 – Jan 2015
Helped in organizing National Road Safety Week 2015, painting event, Safety debate and women self-defense workshops
- Blogger and Administrator at BeanCoder.com (Technical blog) July 2014 - Present
- Created an online Web Application Development course on Udemy which got more than 1600 enrollments worldwide in just 2 months. Jan-June 2014