Anupam Panwar

Male, 24 Yrs

EDUCATIONAL QUALIFICATION

B.Tech + M.Tech (Mathematics and Computer Science)	2008-2013	Indian Institute of Technology, Delhi	Aggregate CGPA -7.0/10 M.Tech CGPA -8.8/10	1st Division
Class XII (CBSE)	2008	Nosegay Public School, Sriganganagar (India)	85.2%	PCM -93%
Class X (CBSE)	2006	B.S.F. Sr. Sec. School, Sriganganagar (India)	85.2%	1st in Class. Highest in Maths (**100/100**)

PUBLICATIONS

- An Atanassov's Intuitionistic Fuzzy Kernel Clustering for medical image segmentation.
  Journal: International Journal of Computational Intelligence Systems (IJCIS).
  Publisher: Taylor & Francis
  Application: Detection of Tumor in MRI Images using Unsupervised Learning.
  Link: http://dx.doi.org/10.1080/18756891.2013.865830
- A Novel Intuitionistic Fuzzy Neural Network approach for solving higher order fuzzy polynomials.
  Journal: International Journal of Intelligent Systems (IJIS).
  Publisher: Wiley Co.
  Application: Solving Fuzzy Polynomials using Machine Learning Techniques.
  Status: Under Process.
- A Kernel based Atanassov's Intuitionistic Fuzzy Clustering for Network Forensics and Intrusion Detection.
  Journal: in IEEE/ACIS ICIS (International Conference on Computer and Information Science) 2015.
  Publisher: Proceedings by IEEE Computer Society.
  Appplication: Malware or Threat Detection.
  Status: Under Process.

SKILLS & PROFICIENCIES

Programming Skills:	C++, JAVA, Python, Ruby, JDBC, Collection API, Matlab, R programming, OpenGL, Java Script
Web Technologies :	HTM5, CSS3, PHP, Perl, Apache Tomcat 6.0, JBOSS AS
Software Packages :	MATLAB, Hadoop, Hive, R Machine Learning libraries, Eclipse, Jboss Developer Studio, OpenCV
Database :	MySQL, Oracle 11g
Operating Systems :	Windows XP/Vista/Windows 7, Ubuntu 9.04, SUSE Linux
Documentation Skills	Microsoft Office, LATEX

TECHICAL INTEREST

Machine Learning, Pattern Recognition, Big Data, Image Processing, Data Mining, Information Retrieval, Databases, Data integration

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ACADEMIC ACHIEVEMENTS AND AWARDS

- Secured All India Rank 325 among 300,000 students in prestigious IIT Joint Entrance Exam 2008.
- Ranked 110 among 800,000 students in All India Engineering Entrance Examination (AIEEE) 2008.
- Recipient of India's most prestigious National Talent Search Examination (NTSE) Scholarship in 2006 (Percentile 99.87%).
- Awarded Certificate of Merit by CBSE for being among the Top 0.1% of candidates for Class 10th in Mathematics (Score 100/100). (2006).
- Recipient of Central Sector Scholarship awarded by Ministry of Human Recourses and Development (MHRD) awarded to 10 students of IIT Delhi on the basis of performance in IIT-JEE (2008).

CURRENT EMPLOYER

- **Big Data Security Analyst, Symantec Corporation (CTO STAR Team), Bangalore (India)** (September, 2014 - Current): Working with Symantec Corporation, as a Big Data Security Analyst. I am responsible for capturing incident vectors from Intrusion Detection Systems and End Point Protection Products, storing them in proprietary format in HBase and classification of malicious activities using Data Mining and Machine Learning techniques.
    - *Technologies Used***:** Java Spring, IBM InfoSphere Streams, Hadoop, Machine Learning, Hive, Hue
    - *Language Used:* Java, R, XML, XSL.

INDUSTRIAL EXPERIENCE

- **Software Engineer, EMC Corporation, Bangalore (India)** (August, 2013 – September,2014): Worked with EMC Corporation(**http://www.emc.com/),** as a Software Engineer, in Information Intelligence Group. Worked on web application builder tool XCP (Xcelerated Composition Platform). My project was a RCP (Rich Client Platform) based project and task was to add a new feature which would help the user to make applications on the tool in an optimal way and would create diagnostics report of the application built.
    - Awarded **Bronze Award** in the **Value Creation Category for Q1 2014.**
    - *Technologies Used***:** Eclipse RCP, Eclipse Modelling Framework, JAXB APIs, DOM APIs. *Language Used:* Java, XML, XSL.

- **Junior Software Engineer, Mogreet Inc., Los Angeles (USA)** (May, 2012 - Aug, 2012): I was offered the Summer Internship again at Mogreet for the summer after senior year.
    - The marketing team required a **Generic Tool for Analyzing the Trends** through customized reports and charts. I setup a new **Jaspersoft Business intelligence Server** (based on iReports) hosted at mogreet.com host. This service enabled marketing and sales teams to produce customized charts which get updated with real-time data.
    - Designed a Ruby based robust **Latency Calculating System (LCS)**. The latency is the time elapsed between sending of message from server and delivery to mobile users. Mogreet uses it as an important performance metric. LCS monitors the latency in real time and raises an alert if it exceeds a threshold as a sign of server problem.

- **Statistical Data Analyst, Mogreet Inc., Los Angeles (USA) (**May, 2011 - Aug, 2011): I worked with a **California** based start-up in **Mobile-Marketing Domain** as Statistical Data Analyst for 3 months. Mogreet helps marketers strategize, launch and maintain their mobile campaigns. They targeted customers through photo, video, audio and text based SMS and MMS messages.
    - Built a **Model using neural network technique** to predict the demographic trends so as **to predict the demographics of their customers**, which assisted the marketing team to build better strategies. I used **R programming language** for developing the model. It involved mining their consumer Database which was having more than 30 million records.
    - *Awarded **Best Intern of the Year**. Also offered the next year internship*.

RESEARCH EXPERIENCE

- **Web Application for travel planning:** *(August 12 – November 12)*
  Technologies and skills involved: HTML, Java, JDBC, Servlets, MySQL, Apache Tomcat, XML, Graph theory and Algorithm fundamentals (Greedy Algorithms and Dynamic Programming)
  - ➢ Designed a web application which suggested various alternate travel plans and routes by trains and flight between two cities which are not directly connected by a train or flight. The application used an underlying database in MySQL for train and flight schedules, fare, stations covered and week days of operation. The application constructed an in-memory graph with various cities as nodes and the trains and flights connecting the cities as the routes connecting the nodes. The application has the option to optimize on travel time, fare or both. Based on the option selected travel time, fare or weighted sum of both is used as the weights on the graph.

- **Face Recognition** *(Jan,11 – May,11)*:
  Title: Implementation of face recognition algorithm in Matlab.
  - ➢ Implementation of Eigen face algorithm by performing principal component analysis (PCA) on a large set of images depicting different human faces.

- **Semantic Web Designing** *(Jan, 12 – May,12)*
  Title: Search Engine
  - ➢ The objective of this project was to make a Crawler that would take as input a hypertext link and starts crawling the webpages, an upper limit was given to crawl the webpages. The webpages were downloaded in the local server then a search operation was performed on them.

RELEVANT COURSE UNDERTAKEN

✓ Computer Graphics	✓ Machine Learning
✓ Computer Vision	✓ Neural Networks and Soft Computing
✓ Numerical Methods of Computation	✓ Database Management System
✓ Computer Organization and Architecture	✓ Linear algebra
✓ Financial Mathematics	✓ Human Computer Interaction
✓ Probability and Stochastic Processes	✓ Optimization: Applications and Methods
✓ Operating System	✓ Computer Networks
✓ Data Structures	✓ Analysis and design of algorithm
✓ Advanced Data Structures	✓ Data Mining

EXTRA CURRICULAR ACTIVITIES

- Worked as an Executive in NSS (National Service Scheme), IIT Delhi (2009) which works with around 1200 student in the field of Social Service.
- Activity Head of the Open House Team (Annual Technological Festival), IIT Delhi (2008).
- Head-Boy of the school during class 12th (2007-2008).
- Vice-Captain of the winner team during Inter-College Lawn Tennis Tournament, Delhi (2009).
- First Position in the district in debate competition organized by Rotary Club. (2009).
- Awarded for excellent community development project work under the Lakshmi Majumdar Award Competition (Most Prestigious Award in North India) during the year 2004-05.
- First Prize, General quiz in class 12th (2008).