

Aman Khandelwal

Third Year B. Tech Student

Computer Science and Engineering
Specialization (Cloud Computing and
Information Security)

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Academic Details

Year	Degree	Institute	Percentage/CGPA
2016- Present	BTech in Computer Science and Engineering	Poornima University Jaipur, Rajasthan	CGPA =8.7 /10
2015	Class XII CBSE	St. Anselm Sr. Sec. School Alwar, Rajasthan	85.6%
2013	Class X CBSE	St. Anselm Sr. Sec. School Alwar, Rajasthan	CGPA =9.2/10

Objective

To pursue graduate studies in computer science and engineering, leading to a career in research. I am interested in information security, programming and machine learning.

Minor Projects

Stock Market Prediction using machine learning

B.Tech Project

Here, in this project, we propose a machine learning approach for various applications. Specifically, we apply Linear Regression Classification Algorithm to perform classification on complex inputs such as the nodes of a graph structure. We took the past few years stock prices data in a graph structure and use Linear Regression Classification Algorithm to predict positive or negative movement in their stock prices. The accuracy of prediction is than tested and a percentage value is taken out. The accuracy is also tested with the help of SVM. It is shown that a minimum graph cutting algorithm can solve this problem in the stock price case in polynomial time. Experimental results show the practicability of our proposed machine learning approach in predicting stock prices.

Other Projects

Snake and Ladder Game

2nd Semester Programming Project

To make a snake and ladder game application using graphics in C and C++. The application provides user to play snake and ladder game with fun and enjoy it. User can choose number of player up to 4 to play game or else it can play with computer.

GitHub Link: - <https://github.com/AmanKhandelwal993/SnakeAndLadderGame>

JOY BOX (paint your thoughts)

2nd Semester Programming Project

To make a paint application using graphics in C and C++. The application provides user to draw lines, circle, rectangle, and many more features like pencil, brush, colour etc. This project was a small approach to make application similar to paint in windows using graphics in C. User can draw good paintings using this tool.

GitHub Link: - <https://github.com/AmanKhandelwal993/JoyBox-Paint-Application>

Mobile controlled Robot Over Bluetooth

1st Sem Project

To make a mobile Control robot using the Arduino Uno and various supporting materials. Arduino is programmed to take various instructions from Android Phone via medium of Bluetooth and then giving the signals to motors. Android application interface is used at the users end for taking the inputs.

Conferences/Workshops Attended

National Workshop on Nanotechnology for Futuristic Engineering Application in Poornima University, Jaipur in 2016.

TRYST workshop on HTML and CSS, IIT Delhi in Feb,2017.

BUSINESS MODEL WORKSHOP in Vivekanand Global University.

Relevant Courses

Computer Science: Computer Networks, Operating Systems, Programming Languages, Data Structures, Ethical Hacking Fundamentals, Introduction to Cloud Technology, Network Security, Server Operating System (Windows server 2008,12)

Computer Skills

Programming Languages: Java, C/C++, Python

InfoSec Field: Web Application Attacks, Cryptography, Android Phone Attacks, Metasploit, Exploit Development (Buffer Overflow), Digital Forensics, Networks Attacks

Web Development: PHP, JavaScript, CSS, HTML

Others: Familiar with Computer Networking Fundamentals and Network Security, machine learning using python

Platforms: Linux and Windows

Extra-Curricular Activities

- Won **second** prize in RECKON Hackathon at J.I.E.T, Jodhpur.
- Won **second** prize in Business Model Presentation Competition at V.G.U.
- Won **second** position in the coding competition held at Poornima University.
- **Bronze** medallist in Science Olympiad at school level
- **Runner up** in intra college volley ball matches, at Lakshay (Annual Fest), Poornima University
- Participated in embedded competition at Techkriti (Techfest 2018), IIT Kanpur.

Position of Responsibility

- Vice-Captain of Sahara House, iNurture Department, Poornima University
- Member of Talent enrichment cell, iNurture Department, Poornima University

Training

CyberOps, Jaipur, <http://cyberops.in/>

Pursued CyberOps InfoSec Specialist Training Program.

Learning Outcome: Advanced concepts and design strong encryptions with various cryptography methods, Techniques and methods to understand of reverse engineering malicious software, In-depth analysis of android file system for security assessment with reverse engineering tools, discover essential computer / digital forensic tools, Understand the process of exploit development along with C and python language and also create and customize exploits for penetration testing and vulnerabilities. Cyber-crime case studies and its countermeasure.