

# Curriculum Vitae

**Aman Tyagi**

**Mobile no: +91-7983164624**

**Email: aman.tyagi74@gmail.com**

## Career objective:

Looking for an opportunity to secure the position of a faculty, wherein I can employ all my skills for the benefit of the students. So, to find myself in a challenging job situation where in I can contribute significantly to the Organization, which can catalyze my development in professional, personal and financial fronts.

## Project Undertaken:

**1. Name of organization:** College of Engineering Roorkee.

**Title of Project:** Worked on Feature Extraction of Devanagari characters

**Roles & Responsibilities-** The work includes combining multiple feature extraction techniques & recognition of Devanagari characters based on certain characteristics of Devanagari characters.

**Full Pin code string & Address recognition system for Indian postal automation:**

**Roles & Responsibilities-** Worked towards creating a system that would extract various blocks from an Indian postcard. The system will automatically determine the destination city of any postal document either from the pin code mentioned or from the recipient address. The project gave me exposure to various pattern recognition techniques such as feature extraction methods & various classifiers. It inspired me to work further on Devanagari script recognition.

**2. Name of organization:** College of Engineering Roorkee.

**Title of Project:** made E-commerce site like Flipkart.

**Methodology:**

**Made the E-commerce site.** Have used JAVA as the programming language. Oracle is used as the Database. Apache Tomcat is used as the server. Eclipse is used as the framework. The various pages of the website are created in JSP.

**3. Name of organization:** Ducat, Noida.

**Title:** JAVA Technology.

- Have done training and project in java under ducat, Noida.

## Scholastics:

- B.Tech in Computer Science and Engineering from College of Engineering Roorkee .
- Secured 72.3% marks.
- M.Tech in Information and Technology from Amity University.
- Secured a CGPA 7.1
- 12th from CBSE Board. Secured 75% Marks.
- 10th from CBSE Board. Secured 77% Marks.
- Cleared GATE Exam.

## Experience:

- Worked as a Computer Science faculty in **JITM Skills Pvt. Ltd.** From Feb 2017 to May 2018.
- Working as Assistant Professor, Computer Science & Engineering Department in **Gurukula Kangri (Deemed to be University)** from August 2019 till present.

### **Achievements and Awards:**

- Attended workshop under ***“The IBM Certified Professional Program”*** organized by the IBM in the college.
- Won many prizes in various sports activities at school.
- Participated in ***“Manthan”*** – The Annual Inter College techno management fest.
- Have participated in the Poster Presentation on ***“ Visual Cryptography Using Image processing”***.

### **Faculty Development Program and Courses:**

- Has successfully completed self-paced training course on **“Matlab Onramp”**.
- Participated in the AICTE Recognized Faculty Development Program on **“Neutral Network and CNN”** conducted by Curriculum Development Centre Department from 20/04/2020 to 24/04/2020 (one week) at NITTR, Chandigarh.
- Has successfully completed the One Week online Short Term Course on **“Blockchain and Machine Learning”** organized by Department of Computer Science & Engineering, Faculty of Engineering & Technology, Gurukula Kangri Vishwavidyalaya Haridwar in Technical Collaboration with IBM & AICTE from 29<sup>th</sup> June 2020 to 3<sup>rd</sup> July 2020.
- Has participated & completed successfully AICTE Training & Learning (ATAL) Academy Online FDP on **“Data Sciences”** from 11/05/2020 to 15/05/2020 at Indian Institute of Information Technology (IIIT Nagpur).
- Has participated & completed successfully AICTE Training & Learning (ATAL) Academy Online FDP on **“Leadership & Excellence”** from 14/09/2020 to 18/09/2020 at Faculty of Engineering & Technology, Gurukula Kangri Vishwavidyalaya Haridwar.
- Has successfully completed **“Introduction to Data Science in Python”** an online course by University of Michigan and offered through Coursera.
- Has successfully completed **“Machine Learning”** an online course by University of Michigan and offered through Coursera.
- Has participated & organized FDP on **“Academic Leadership & Management”** organized by Gurukula Kangri (Deemed to be University), Haridwar from 17<sup>th</sup> to 21<sup>st</sup> May 2021.
- Has participated FDP on **“Virtual & Augmented Reality for Robotics”** organized by Vimal Jyoti Engineering College, Kannur, Kerla from 12<sup>th</sup> to 17<sup>th</sup> July 2021.

### **Webinars Attended:**

- Has participated in the National Webinar on **“Application of Artificial Intelligence in Current Scenario”** organized by Faculty of Engineering & Technology in association with SWAYAM-NPTEL Committee, Gurukula Kangri Vishwavidyalaya Haridwar on May 27, 2020.
- Has participated in the National Webinar on **“Modern Methods for Remote Teaching – Learning Practices”** organized by Faculty of Engineering & Technology in association with SWAYAM-NPTEL Committee, Gurukula Kangri Vishwavidyalaya Haridwar on May 25, 2020.
- Has successfully Completed the National Webinar on **“Modern Methods for Remote Teaching – Learning Practices”** organized by Faculty of Engineering & Technology in association with SWAYAM-NPTEL Committee, Gurukula Kangri Vishwavidyalaya Haridwar on May 25, 2020.
- Has participated in the Webinar on **“Understanding Blockchain Made Simple”** on June 06, 2020 organized by Department of Computer Science Vivek College Bijnor.
- Has Successfully attended the International Webinar on **“Environment & Sustainable Development”** on June 05, 2020 organized by Government Polytechnic College Jhalawar, Rajasthan.
- Has Successfully attended the National Webinar on **“Effects of Fear among the Organization”** organized by Faculty of Engineering & Technology on 9<sup>th</sup> June 2020 with joint collaboration of CAOC and SWAYAM Committee Gurukula Kangri Vishwavidyalaya Haridwar.
- Has participated in the Webinar on **“Artificial Intelligence Approach against COVID-19 Pandemic”** conducted by National Institute of Electronics & Information Technology (NIELIT) Haridwar on 12/06/2020.
- Has participated in the Webinar on **“Stress Management”** organized by Ek Bharat Shreshth Bharat Cell, Faculty of Engineering & Technology, Gurukula Kangri Vishwavidyalaya on June 27, 2020.

- Has participated in Online Webinar on **“Indian Food Processing Industry: Goldmine for Entrepreneurship Opportunities”** organized by Department of Computer Science & Engineering in Collaboration with Entrepreneurship Cell, Faculty of Engineering & Technology, Gurukula Kangri Vishwavidyalaya Haridwar on 4<sup>th</sup> July 2020.

- Has participated in the National Webinar on “**How Engineers can Contribute in Fight against Covid 19 Pandemic**” organized by Faculty of Engineering, Gurukula Kangri Vishwavidyalaya Haridwar on July 06, 2020.

### **Computer Skills:**

- Languages: C, Core Java, Advanced Java.
- Databases: SQL.
- Platform: Microsoft Windows.
- Others: MS Word, Internet Operations.

### **Research work Done:**

- Have done Poster Presentation on “*Visual Cryptography Using Image processing*”.

#### **Synopsis:**

Visual Cryptography is a new cryptographic technique which allows visual information such as picture, text etc to be encrypted in such a way that the decryption can be performed by humans, without any decryption algorithm. This can be solved by using Invisible and Blind Watermarking scheme. For this a data hiding in halftone images using conjugate ordered dithering (DHCOD).

- Have done research paper and report on “*Regression Testing*”.

#### **Synopsis:**

Regression Testing is used to check that if any change takes place in the software, then its functionality is working well or not. The generation of test cases is a tedious task in regression testing. So, a genetic algorithm is prepared which will prioritize the regression i.e. test cases are prioritized based on the complete code coverage. This algorithm will automate the generation of test cases. Since genetic algorithm will have certain limitations. So, we have presented a method which is new and is based on Bee Colony Optimization (BCO).

- Have done thesis on “*Image Compression*”.

#### **Synopsis:**

Image compression is one of the basic problems in the field of image transmission through internet and to store in digital form on computers. Compressing images is significantly different than compressing raw binary data. Here, compressing of images is done with the help of Discrete Cosine Transform (DCT). Several encoding techniques have also been used together with DCT to improve the performance of compression.

### **Hobbies:**

- Reading about new and upcoming Technology.
- Surfing search engines.
- Playing Cricket.
- Playing games on computer and play station.

### **Strengths:**

- Energetic and enthusiastic.
- Positive attitude with a passion to achieve.
- Responsible towards work.
- Self-motivated and directed.

**Languages Known:**

Can speak, read and write in English and Hindi.

**Personal Dossier:**

Date of birth: July 12, 1989

Permanent Address: 34, Civil Lines, Jadugar Road, Roorkee, Uttarakhand

Marital Status: Single

Nationality: Indian

Father's Name: Mr. Subhash Tyagi