

# CURRICULUM VITAE

**NIRBHAY KUMAR PANDEY**  
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**C and C++11 Programmer**

<https://www.codechef.com/users/nirbhay57>

<https://stackoverflow.com/users/1969682/nirbhay-kumar-pandey>

## EXPERIENCE SUMMERY:

- From recent past 2+ years(2019-2021) have been coding in C++11 with gcc, g++(STL) on codechef.
- Good communication, presentation skills and positive attitude.
- Strong analytical skills and enjoy solving complicated technical problems.
- Strong communication, teamwork and consensus-building skills.
- Strong understanding of modern C++, Data Structure, STL and Algorithm.
- Hands on experience on g++11/14/17, STL, gcc, GDB, Python3.

## STRENGTHS:

- Good team player.
- Positive attitude.
- Committed towards work with proper time management.
- Ability to grasp new technology.

## ACADEMIC PROFILE:

- Attained M.Tech from Indian institute of information technology, Allahabad (in I.T. having specialization Software engineering) with score 7.85/10 in 2019.
- Attained B.Tech (I.T.) with score 7.48/10 from Kalyani Govt. Engg. College in 2010.

## TECHNICAL EXPOSURE:

- **Skills:** C, C++, Data Structure & Algorithm, STL, Python, SQL, Dos internals, Windows registry, TSR in C.
- **Platform:** Windows-95,98,ME,,2000,XP,7,8,8.1,10, Ubuntu, Linux-mint-17,18.1,18.2,20.1
- **IDE:** Turbo C/C++, Microsoft Visual Studio 2010,2019, gcc, g++, GDB.
- **Database:** Microsoft SQL.

## CAREER HIGHLIGHT:

- Won several appreciations from the seniors and project guide for completing several projects well before deadlines and provided elaborative and conceptual explanation for several projects in IIIT, allahabad.
- Understood the complex concept of SVM in machine Learning.
- Achieved 3 stars on **codechef competitive programming plateform**.
- **98.7** percentile in GATE-CS-2016.
- Have developed strong foundation in theoretical computer science and proof techniques.

## PROFESSIONAL EXPERIENCE:

Organization	My Role/Post (Legal)	From	To
Greeksoft Technologies pvt. ltd	C++ developer	June-2021	
Biztechnosys infotech Pvt Ltd. , Bangaluru	Develop software using C#	Feb-2020	Mar-2020

## PROJECT PROFILE:

### Project #1 : Face-Recognition using PCA

**Technologies :** Python3, numpy cv2, matplotlib

**Role :** Requirement writing, Requirement Analysis, Design, Development, Code Review, Unit Testing.

**Environment :** Linux-mint 18.2

**Details :**

- Collected images of 10 people.
- Converted/cropped them to 100\*100 pixel.
- Subtracted the mean face from all 10 images.
- Using mathematical orthogonal transformation, extracted top K dominant features.
- Using eigen-faces, final face-recognition process was done.

### Project #2 : Search engine for large document corpus using inverted index.

**Technologies :** Python3, openpyxl, nltk

**Role :** Requirement Analysis and writing, Design, Development, ad-hoc testing using several random inputs.

**Environment :** Linux-mint 18.2

**Details :** Implemented search engine capable of

- Suggesting nearest word if misspelled, and
- Retrieving from the corpus in very short time.

### Project #3 : MNIST digit recognition by CNN

**Technologies :** Python3, keras, tensorflow

**Environment :** Linux-mint 18.2

**Details :** Downloaded the mnist data set and coded and implemented to recognize the individual digit images.

Out of 10000 images, I took 7000 images for training using CNN. I tested my trained model on the rest 3000 images and it gave 98.2% accuracy.

### Project #4 : Image Compression by ConvLSTM

**Technologies :** Python3, keras, tensorflow

**Environment :** Linux-mint 18.2

**Details :** Implemented the paper, available at

a) <https://github.com/1zb/pytorch-picture-comp-rnn> and at

b) [https://github.com/tensorflow/models/tree/master/research/compression/picture\\_encoder](https://github.com/tensorflow/models/tree/master/research/compression/picture_encoder),

and successfully trained and tested the model described therein with my data(face image).

## **EXTRA CURRICULAM ACTIVITIES:**

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- Political debates.
- Taking ownership of cultural programmes.
- Voluntarily interaction with needy people during my free time to help them.