

**C and C++11 Programmer**<https://www.codechef.com/users/nirbhay57><https://stackoverflow.com/users/1969682/nirbhay-kumar-pandey>**EXPERIENCE SUMMERY:**

- Having **5+** years of teaching experience. Taught all major computer science subjects of B.Tech.
- **10+** years of C/C++ development in Turbo C/C++ from **2004 to 2014**.
- From recent past 2+ years(2019-2021) have been coding in modern C++11 with STL on codechef.
- Good communication, presentation skills and positive attitude.
- Good estimation and planning skills.
- Strong analytical skills and enjoy solving complicated technical problems.
- Strong communication, teamwork and consensus-building skills.
- Ability to excel in a high-pressure environment.
- Strong understanding of modern C++, Data Structure, STL and Algorithm.
- Knowledge of socket programming.
- Experience in development using multiple files using best C++ practices in Windows(VC++) and Linux(G++, gcc) platform.
- Hands on experience on **g++11/14/17, STL, gcc, GDB, Python3, SQL Database**.

**STRENGTHS:**

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

**EXPERIENCE PROFILE:**

- Having 5+ years of fully devoted teaching experience and satisfactory 98.7 percentile in GATE makes me a good fit for technical jobs requiring in-depth technical and theoretical knowledge.

**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.

**PROFESSIONAL EXPERIENCE:**

| <b>Organization</b>                        | <b>My Role/Post (Legal)</b> | <b>From</b> | <b>To</b> |
|--|-----------------------------|-------------|-----------|
| Greeksoft Technologies pvt. ltd            | C++ developer               | June-2021   |           |
| Biztechnosys infotech Pvt Ltd. , Bangaluru | Develop software using C#   | Feb-2020    | Mar-2020  |
| R.C.I.T. Bishrampur.                       | Assistant Professor         | Feb-2012    | July-2017 |

**TECHNICAL EXPOSURE:**

- **Skills:** C, C++, Data Structure & Algorithm, STL, Multithreading, MFC, VC++, BOOST, Python, Java, 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 , QtCreator, QT, G++, GDB,VS Code.
- **Database:** Microsoft SQL.
- **Client Application:** HTML, CSS, .NET

**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 platform](#).
- **98.7** percentile in GATE-CS-2016.
- Have developed strong foundation in theoretical computer science and proof techniques.

## 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

- <https://github.com/1zb/pytorch-image-comp-rnn>, and
- <https://github.com/tensorflow/models/tree/master/research>

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

## EXTRA CURRICULAM ACTIVITIES:

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