**CURRICULUM VITAE**

**NIRBHAY KUMAR PANDEY E-mail:** [**nirbhay57@gmail.com**](mailto:ansharma.kumar@gmail.com)

**C and C++11 Programmer Contact No: +91- 7992254505**

[**https://www.codechef.com/users/nirbhay57**](https://www.codechef.com/users/nirbhay57)

[**https://stackoverflow.com/users/1969682/nirbhay-kumar-pandey**](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.
* Working Experience on **Boost** library.
* Knowledge of socket programming**.**
* Experience in development using multiple files using best C++ practices in Windows(VC++) and
* Liinux(G++, gcc) plateform.
* **Hands on experience on g++11/14/17, STL, gcc, GDB, Qtcreator, 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.

**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 explaination 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.

**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](https://github.com/tensorflow/models/tree/master/research/compression/picture_encoder) and at

b) <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:**

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