

# Niraj Kumar

[neeraj2681@gmail.com](mailto:neeraj2681@gmail.com) | [linkedin/neerajbhatt2](https://www.linkedin.com/in/neerajbhatt2) | [github/neeraj2681](https://github.com/neeraj2681) | [neeraj2681.github.io/](https://neeraj2681.github.io/)

## EDUCATION

**M.Tech in Computer Science**  
INDIAN STATISTICAL INSTITUTE

Kolkata, India | 2020-22

**B.Tech in Computer Science and Engineering**  
GOVIND BALLABH PANT ENGINEERING COLLEGE

Pauri, Uttarakhand | 2015-19

## WORK EXPERIENCE

**COGNITREE** | SDE INTERN

Bangalore, India | Jul 2019 – Aug 2019

- Acquired practical knowledge about various design patterns and tools like Maven, Git, MongoDB etc.

## PROJECTS

**SIGNATURE VERIFICATION(CURRENTLY WORKING ON)** 

TENSORFLOW, DEEP LEARNING

- Different deep neural network models to identify whether a given handwritten signature is authentic or not.
- Utilisation of **CNN** to retrieve features.

**QUESTION ANSWERING MODEL(MAY 2021 - AUG 2021)** 

NLP, DEEP LEARNING

- A **BERT** based NLP model for answering the questions based on the some given context.
- Wikipedia pages are used as context based on the question provided by the user.
- Model returns the starting and ending position of the answer from the relevant Wikipedia page.

**MACHINE LEARNING MODELS(APRIL 2021 - JUL 2021)** 

PYTHON, NUMPY

- **Scratch implementation** of various neural network models and **model evaluation techniques** like **MLP**, **CNN**, **k-fold cross validation** etc.
- Models are trained and tested on different open source datasets like **IRIS**, **MNIST** etc.

**BEOWULF CLUSTER** 

C, MPI, SHELL

- Designed a master-slave cluster for heavy computations.
- Utilising old and cheap machines in the master-slave cluster.
- High Performance to cost ratio.

## SKILLS

Languages: C, Python, Java, Bash, SQL

Technology: Machine Learning, Deep Learning, NLP

Tools and Libraries: Pandas, MATLAB, Git, Tensorflow, ~~LaTeX~~

## ACHIEVEMENTS AND CERTIFICATIONS

- 98.21 percentile in GATE 2021
- Problem Solving Certification by Hackerrank
- MATLAB onramp Certification by Mathworks
- Algorithmic Toolbox Certification by Coursera

## PERSONAL INTERESTS

Human Evolution, Different Cultures around the globe, Gaming, Mathematics