

Deep Raval

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Proficient in **Python** and **C/C++**

EDUCATION

- **Adani Institute of Infrastructure Engineering** Ahmedabad, India
B.E. in Information and Communication Technology; CGPA: 9.81/10.0 Aug. 2017 - Present

EXPERIENCE

- **IIT-BHU** 🌟 Varanasi, India
Summer Workshop cum Internship June 2020 - July 2020
 - Worked on the project “**Character Recognition on Time Series Sensor Data collected from Smartphone Sensors**”.
 - Achieved accuracy of **93.60%** on training data and **89.51%** on testing data after experimenting with **LSTM, GRU, Bidirectional LSTM and Conv-LSTM** based models using **Tensorflow**.

PROJECTS

- **Neural Network Sandbox** 🐙 | Python, Tensorflow, Pandas, Matplotlib, Kivy
 - This project provides **GUI** for creating and training simple **feed forward neural networks**.
 - Various **hyper-parameters** can be tweaked from the GUI itself. It also supports **visualization** of the **network and training/testing statistics**.
- **Knapsack Container Loading Problem** 🐙 🌟 | C++, Python, Matplotlib, tkinter
 - We gave **heuristic solution** for Knapsack Container Loading Problem which is **NP-Hard**.
 - Our solution has support for both the **GUI** and the **solution visualisation**.
 - It was developed in the **team of 2** as a part of competition held at our college. We **won the competition** by scoring **19/20**.
- **Neural Networks from Scratch** 🐙 🌟 | C++
 - To understand neural networks thoroughly I implemented them **from scratch**.
 - Implemented various features like **Mini-Batch Gradient Descent optimizer**, **MSE loss function**, **csv file support**, **supporting vector operations** and **model saving/loading support**.
 - Contributed my code to **The Algorithms Open Source Organization**.
- **Digit Recognizer** 🐙 | Python, Tensorflow, OpenCV, tkinter
 - A little project which **implements ML model** (trained on “Hello World of ML” - MNIST Digit Dataset) in **real life**.
 - Have **GUI** which **supports drawing**, **capturing from camera** and **selecting existing photo of the digit**.

SKILLS

- **Proficient:** Python, C/C++, git protocol, Keras API
- **Intermediate:** Tensorflow, HTML5, Flask
- **Beginner:** Java, JavaScript, CSS3, Bootstrap4

ACHIEVEMENTS

- **Best academic performer** in **2nd**, **5th** and **6th** semester.
- Got **fees waived off** under TFW scheme.
- As a result of being in top 1% of the School Board at class XII Level I received **scholarship offer from the government of India worth Rs. 400,000** under **INSPIRE** scheme.