Deep Raval

EDUCATION

• Adani Institute of Infrastructure Engineering

Ahmedabad, India

B.E. in Information and Communication Technology; CGPA: 9.81/10.0

Aug. 2017 - Present

EXPERIENCE

• FutureAPI Bengalore, India

Data Scientist Intern

Oct 2020 - Nov 2020

- Worked with SV2TTS, Tacotron, WaveNet etc. technologies for voice cloning and synthesis.
- Implemented a **CLI** with support for synthesis of large amount of text.

• 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.
 - $\circ\,$ Contributed my code to The Algorithms Open Source Organization.
- Digit Recognizer O | 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 2^{nd} , 5^{th} and 6^{th} 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.