Jaymin Suhagiya

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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: 9.42/10.0 — *Aug. 2017 - Present*

Experience

- **Backend Developer** — Ahmedabad, India
  o2h Technology — *January 2021 - Present*
  - I have hands on experience working with the frameworks such as **NodeJS, Laravel and ReactJs** and databases like **MongoDB, MySQL and Elasticsearch**.
  - Collaborated with a different team on 5 different projects with different languages and frameworks like ExpressJS, adonis, nestJS, and Laravel.
  - Worked as an only backend developer in a service-based project called pharmenable with millions of data using mongoDB as a database, elasticsearch as a search engine, and Typescript as a language.
- **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

- **Turing Q Learning | Python, Tensorflow, Reinforcement Learning**
  - Build a multitasking neural network with the help of Reinforcement Learning. There is one bigger network common for multiple games and other small networks supporting the main network different for different network.
  - we integrated the DNC(Differentiable Neural Computer) as a main network and while supporting networks are recurrent networks supporting it.
  - Learned about reinforcement learning and different training meathods like Q Learning, DQN and DDQN.
- **Knapsack Container Loading Problem ✹ | C++, Python, Matplotlib, tkinter**
  - We gave **heuristic solution** for Knapsack Container Loading Problem which is **NP-Hard** problem.
  - 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**.
- **Object Detection | Python, Tensorflow**
  - Implemented **YOLO (you only look once)** for object detection.
  - As part of CNN course of coursera, I learned a mathematics and implemented it using notebook provided by them.
- **Drowsiness Detection | Python, OpenCV**
  - Our project buzz the alarm if driver gets drowsy while driving the car.
  - Used openCV to detect the eyes of driver and performed the mathematical steps to find driver is drowsy or not.

Skills

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

Publications

- **"Character Recognition on Time Series Data collected from Smartphone Sensors"**, Deep Raval et al 2021 IOP Conf. Ser.: Mater. Sci. Eng. 1099 012014 .
- **"Forecasting of Electricity Consumption for G20 Members Using Various Machine Learning Techniques"**, Accepted book chapter to be published in: 'Artificial Intelligence for Renewable Energy Systems', Scrivener Publishing partnered with John Wiley (USA)

Achievements

- I won the coding competition in a team of two held at our college based on an NP-Hard problem called the Knapsack container loading problem.
- Completed **Introduction to Tensorflow** Course on coursera provided by Deeplearning.ai
- Learned **Time Series and Sequence Model** on coursera.