Meet N. Gandhi

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EDUCATION

MPSTME, NMIMS UNIVERSITY 3.38/4 CGPA   Bachelor of Technology in Computer Engineering
2016-2020

WORKING EXPERIENCE AND INTERNSHIP

VIITORCLOUD PVT LTD.   AHMEDABAD, GUJARAT
Software Developer   June 2020 – Present
- Currently working on a research project for generating 3D object models from a single 2D image.
- Worked on an in house project named Revelio for providing API service where I used Pytorch and Detectron 2 provided by FAIR along with Django and Mongodb.

PIONEER GROUP OF COMPANIES.   AHMEDABAD, GUJARAT
Software Developer   Sept 2018 – June 2020
- I worked as a full-stack web developer at Pioneer automobiles, an automobile sales company based in Ahmedabad developing custom Client Relation Management portal.
- The entire software is created on java, the main idea behind this software is to reduce the management efforts and time consumed by employees.

BOMBAY STOCK EXCHANGE   MUMBAI, MAHARASHTRA
Internship Database Operator   May 2018 – July 2018
- Resolved time-stamping issue while real-time data migration from MS SQL database to PostgreSQL using foreign-data wrapper.
- Participated in creating an application using socket programming for testing number of trades the system can handle successfully.

UASNMIMS   MPSTME NMIMS UNIVERSITY
Drone Engineer,   July 2016 – March 2020
- Was a Team Member at Team UAS NMIMS. The team specializes in drone technology and has been conducting extensive research and development in the field of UAVs. I am a part of computational team which mainly works with image processing team and Interop team.

RESEARCH EXPERIENCE

INDIAN INSTITUTE OF MANAGEMENT, AHMEDABAD   AHMEDABAD, GUJARAT
Assistance On Research Project, Asst. Prof. Anuj Kapoor, IIM-A   June 2020 – July 2020
- The purpose of the research project was to understand how YouTube content influences the audience. My contribution involved performing emotion classification on YouTube comments to get behavioral insights

MPSTME, NMIMS UNIVERSITY   SHIRPUR, MAHARASHTRA
Research Assistant   May 2018 – July 2018
- Member of IDB group under prof. Santosh Bothe which carries on various projects participated in project based on "Electronic Health Record" in my first year of engineering. This was based on the selection of parameters for accurate prediction of diseases.
- Conducted research with prof. Prashant Udavant regarding "Enhancement in Smart Irrigation System". A hardware product was created which measures moisture, temperature, and humidity of soil and provides water accordingly to the soil.

RESEARCH PUBLICATIONS

- M. Gandhi, "**Deep learning based Lip reading**", in 2019 Neural Networks-Elsevier (In review).
- K. Datar, M. Gandhi, P. Aggarwal, and M. Sohani, "**A Review on Deep Learning Based Lip-Reading**", in 2019 International Journal of Scientific Research in Computer Science, Engineering and Information Technology., Jan. 2020, pp. 182–188.
- M. Gandhi, J. Kamdar, and M. Shah, "**Pre-processing of non-symmetrical images for edge detection**", in 2019 Augment Hum Res 5, 10 (2020)., Dec. 2019.
- M. Gandhi, E. Vatsa, and N. Choubay, "**Synchronization of Machine Learning into Electronic Health Records**", in International Journal of Computer Application, Vol. 177 – Number 26, Dec. 2019.

TECHNICAL DESIGN PAPER

- Technical design Paper for **15th, 16th and 17th AUVSI Student UAS Competition** Mukesh Patel School of Technology Management and Engineering

HONOURS

- Part of the team UAS NMIMS, which secured **5th Rank All Over the World in AUVSI-SUAS** (Unmanned Aerial System) drone competition held at Maryland, USA
- Heald a position as **SECRETARY of CSI** (Computer Society of India), a union of computer science engineering students all over India who conduct various workshops to create awareness regarding new technological advancements.

TECHNICAL SKILLS

- **Python:** (Good knowledge, Familiar with Numpy, Pandas, Scikit-Learn, OpenCV, Matplotlib, TensorFlow, Keras, PyTorch)
- **Java:** (Good knowledge, Familiar with JSP, JSTL, Servelts)
- **C:** (Good knowledge, Experience in Data Structures & Algorithm, Operational Research)
- **Microcontrollers/Microprocessors:** (Raspberry pi, Node MCU, Pixhawk, Naze 32)
- **Domains worked in:** Machine Learning, and Deep Learning, Database Administration, Software Development, IOT, Android Application Development, Drone Software Developer.

KEY-PROJECTS

• **DEEP LEARNING BASED LIP READING:** Created a **CNN based model** for accurately predicting spoken words or sentences from only the video component of the input data. The model outperformed several existing models and this project was presented as final thesis submission for Bachelors degree.

• **EMOTION ANALYSIS:** The project focused on using **NLP – Transformer**, a **BERT** based model was used to predict the emotion of the YouTube comments.

• **NEURAL STYLE TRANSFER:** Made a project which **adapts content** from an image **and style** from another image and outputs an entirely new image containing both the style and content from both the images.

• **TYPE IN YOUR OWN HANDWRITING:** Created Using **CV2** in python, in this project, anything one writes in the text file, can be converted to one's own handwriting and it gives o/p as an image.

• **MACHINE LEARNING USING PYTHON GUI-TKINTER:** A GUI based (Tkinter) python program integrated with machine learning via pandas and matplotlib that allows the users to apply any **machine learning algorithm on a user-provided CSV file.**

• **FACE RECOGNITION:** A project in which faces are **detected and a verification of the faces** are done with the already existing data in the database.

• **SMART IRRIGATION SYSTEM:** A autonomous system based on **Node MCU** working as master, **Wemos mini d1** as slave and Firebase for taking readings and performing data interpretation of moisture, humidity and temperature level at any farm.

COURSE/ SEMINARS/ WORKSHOP/ ACHIEVEMENTS

- **Coursera Specialization** from **Deeplearning.ai** including following courses (Neural Network and Deep Learning, Improving Deep Neural Networks: Hyper parameter tuning, Regularization and Optimization, Structuring Machine Learning Project, Convolution Neural Network, Sequence Modelling.)
- Introduction to Deep learning & Neural Networks with Keras by **IBM**
- Completed **Microsoft Certified** course related to web development.
- Completed **IIT Kharagpur** Operating system model course through QEEE.
- Participated in **WRC – Quadcopter challenge** of TechnoXian, heald at Thyagraj Stadium, New Delhi.
- Participated at **3rdInternational conference** on Academic and Industrial Innovations: Transitions in Pharmaceutical, Medical and Biosciences.
- Attended Google workshop for **Google Cloud On-board: Big Data & Machine Learning.**
- Attended a **Cyber Security** workshop organized by Rahul Tyagi (Vice President - Training at Lucideus).
- Attended couple of **Hackathons** and several **Model United Nations** (MUN) including IIT Bombay TW-MUN.