Meet N. Gandhi

BACHELOR'S IN COMPUTER ENGINEERING
DATE OF BIRTH: 6TH JAN 1999

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OBJECTIVE

To continuously thrive to make myself better by inculcating the latest technological advances, and try to use them and make real-life solutions helpful to the world.

EDUCATION

Qualification	Institute	Board/University	Year	Percentile/CGPA
Bachelors of engineering.	MPSTME	NMIMS	Perusing	3.3/4 (7^{th}sem)
XII	Nirman High School	Gujarat Board	2016	83.06
X	Nirman High School	Gujarat Board	2014	92.56

WORKING EXPERIENCE AND INTERNSHIP

SEPT 2018 – APRIL 2020

SOFTWARE DEVELOPER, PIONEER

- Worked as a full-stack web developer at Pioneer automobiles, an automobile sales company based in Ahmedabad. Currently working on the development of the management portal.
- The entire software is created on java, the main idea behind this software was to reduce the management efforts and time consumed by employees.

MAY 2018 – JULY 2018

DATABASE OPERATOR, BOMBAY STOCK EXCHANGE

- 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.

JULY 2016 – MARCH 2020

DRONE ENGINEER, UASNMIMS

- 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.

TECHNICAL SKILLS

Categories	Technologies
Core Languages	C, Java, Python, C++
Web Technologies	HTML, CSS, Materialized CSS, JavaScript , Bootstrap,JSTL, JSP, Servlets, EC2, RDS
IDE	Eclipse, Android Studio, IntelliJ IDEA, Mat-lab
Microcontroller/Microprocessor	Raspberry pi, Naze 32, Node MCU,
OS	Windows, Ubuntu, RHEL
Database	MYSQL, Oracle, PostgreSQL, MongoDB, Firebase
Concepts	Data Structures & Algorithm, OOP, operational research

Awareness to various Python Libraries like: Numpy, Pandas, Scikit-Learn, OpenCV, Matplotlib, TensorFlow, Keras, etc.

Domains worked in: Database Administration, Software Development, Web Application Development, IOT, Android Application Development, Drone Software, Machine Learning, and Deep Learning.

KEY-PROJECTS

•**E-EXAMINATION WEB APPLICATION (1ST YEAR):** Secured general purpose online examination platform using **Java, Servlets, JSP, MYSQL**. This application can be used to conduct any examination, user needs to enter the questions with correct answer and according to the selected question number mention, test can be generated which can be given by students simultaneously by creating their account.

• **MONEY MANAGER (2ND YEAR):** An **android application** which helps users to keep track of where and how much they use made by using Firebase as a database. This project was under the android course in my second year of engineering. This project was out final submission for term work.

•**TRADING SIMULATOR (2ND YEAR):** An automated system for **Client –Server request simulation Via Socket Programming** with a graphical user interface. This project was a part of summer internship and was used to check the reliability of system by performing stress testing.

• **QUOD-COPTER (3RD YEAR):** Created a quad-copter from scratch, with 30 minutes of flying time. The entire system was made autonomous by using **pixhawk as autopilot.**

• **MACHINE LEARNING USING PYTHON GUI-TKINTER (3RD YEAR):** 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.**

• **SMART IRRIGATION SYSTEM (4TH YEAR):** 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.

• **DEEP LEARNING BASED LIP READING (4TH YEAR):** Created a **CNN based model** for accurately predicting spoken words or sentences from only the video component of the input data.

• **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.

• **REGRESSION:** Created Performed various regression techniques like **Linear, Logistic ,Naive Bayes, Random Forest Regression, etc** on various datasets like Boston Housing Price, Red wine Quality test, Medical cost prediction, car price prediction and HR data.

• **CLASSIFICATION:** Created Performed various classification techniques such as **KNN, Support vector Classification, Naive Bayes Classification, Stochastic gradient descent, xgboost classifier etc.** On various datasets such as Iris, mnist, hand signs, Titanic, Education data etc.

• **NEURAL NETWORK:** Traffic Applied basic neural network for **logistic regression, applied regression and classification using Deep neural network** on various datasets such as Hand Signs, MNIST, Black Friday, House Price, Traffic Sign Recognition (CNN), Hand sign Recognition (CNN).

• **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.

• **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. Currently on-going project.

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.)
- 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 a workshop for **Google Android Development**.
- 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.

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 DESIGN PAPER

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

RESEARCH EXPERIENCE

- 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

- "**Synchronization of Machine Learning into Electronic Health Records**", International Journal of Computer Application
- "**Pre-processing of non-symmetrical images for edge detection**", Augmented Human Research – Springer
- "**A Review on Deep Learning Based Lip-Reading**", International Journal of Scientific Research in Computer Science, Engineering and Information Technology**.** Doi: 10.32628/CSEIT206140
- "**Deep learning based Lip reading**", Neural Networks-Elsevier (in review)