Nisarg Bhatt

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Education

L. J. Institute of Engineering and Technology (B.E.-Computer Engineering)
CGPA: 9.05   2017-2021

Experience

Apple with Pro Unlimited **(AI Teaching Assistant)**   April 2022 - Present
- Create and deliver courses on Machine Learning and Deep Learning for Apple Employees.

Ottonomy.io (Computer Vision Research Intern)   Oct 2021 - Feb 2022
- My work is to make optimized models for autonomous driving Robots. Working on Object Segmentation Algorithms on Edge Devices using PyTorch, Tensorflow, ONNX, TensorRT, and Deep Stream.

Nanyang Technological University (Research Intern) May 2021 - July 2021
- Assisted prof. Thambipillai Srikanthan on ongoing research "Malware Detection using Machine Learning Methods". The aim of the research was to use the classical Machine Learning Model (ie. Random Forest and Naive Bayes) to classify the malware by analyzing system calls.

Wobot.ai (Computer Vision Intern)   Apr 2021 - May 2021
- Worked on PoseDetection and Action Detection on video data using Tensorflow for models and worked on creating docker images.

FavTutor (Data Science Intern and Tutor)   Oct 2020 - Nov 2020
- Assisted and taught basics of Data Science and Machine Learning concepts to the MS students of Universities in the USA, Canada, and Australia.
- Covered topics including Machine Learning Models, Cross-Validation, AutoML, and Basics of Neural Networks(Dense, CNN, and RNN).

Indian Red Cross Society A'Bad (Data Analyst Intern) Dec 2019 - Jan 2020
- Performed Data Analysis on Blood Donor data to predict the best place to organize the Blood Donation Camp regarding the lack of particular blood group/s.

Volunteering

Phoenix Club (Co-Founder):   Sep 2021 - Present
- Co-founded the first coding club with more than 500 members at my college for learning and competing in Programming, Machine Learning, and Web Development.

RoboCon 2021, L. J. I. E. T.(ML Mentor)   Nov 2020 - May 2021
- Worked as a mentor of the Machine Learning Team in RoboCon (Asia-level competition of robotics **website**) in 2021.
- Developed Object Detection on Custom Dataset and deployed it to NVIDIA Jetson NANO with the team.

KHOJ Museum(website) (Project Lead):   Aug 2019 - Oct 2019
- Developed two projects for kids' education on the life cycle of plastic goods.
- I have worked on Raspberry Pi 3B+ and Arduino.

Cod-O-Geek 2019 (Speaker and Co-ordinator):
- Organized a Python and Data Structure Workshop at my College for 1st-year Students.
- 100+ students have participated.

Certifications

- Deep Learning Nano Degree by Udacity.com (2022 - Present)
- Deep Learning Specialization by **Laurence Moroney**, DeepLearning.ai
- Machine Learning by **Andrew Ng**, Stanford University, Coursera
- **Certified Cyber Security Expert**, TechDefence Pvt. Ltd.

Projects

News Classifier in Gujarati Language (GitHub)
- Developed a Deep Learning Model to classify News written in the Gujarati Language in 3 classes, "Business", "Entertainment" and "Tech".
- Created a model with the help of **TensorFlow** and achieved **80% Validation Accuracy**.

A-Eye (GitHub):
- Device (Raspberry-pi) for blind people that detects objects (**YOLOv3**), recognizes faces, and guides the person on their way with the help of audio.

Spam Identifier (GitHub)
- Developed a Machine Learning Model to classify Spam Messages/Emails.
- Used **Multinomial Naive Bayes** as it pushed the accuracy by **1.2%** compared to Random Forest.

Face Recognition Attendance System (GitHub):
- Attendance System that used pre-trained Resnet-50-v1 from Dlib combined with all hardware, that achieved nearly 95% accuracy with zero lag during its operation.

Skills

- Machine Learning, Deep Learning, RNN, NLP, Computer Vision, Tensorflow, Scikit Learn, MongoDB, MySQL, Linux, Python, C++, JAVA.

Awards

- ★★★ coder on HackerRank
- Got **40th** position in **OpenCV's AI competition 2020**.
- Won **the best project** prize for **A-EYE** in **LJ Innovation Village**.