

# Nilesh Sonawane

**Machine Learning Engineer**

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## EXPERIENCE

**Quantiphi Analytics, Mumbai**

**2019[July] - 2020[Feb]**

**Machine Learning Operations Engineer** - Recently worked as a part of Video intelligence Team in [Athena's Owl](#), a Media Based AI product. Responsible for generating models and deployment on GCP for new AI features in the Product. Contributed in making drag and drop platform for AI in Media. *Worked in:*

- **Face Recognition using Few shot learning** - The main objective was to recognize faces in a video. Created face recognition Pipelines for training and inferencing. Trained using **Siamese** network, deployed using GCP's kubeflow.  
**Duration** - 3 months
- **Camera Angle Detection** - Classification of Images Based on different types of camera shots on basis of **Monocular Depth** of Image using **KITTI** and **NYU Depth** Dataset.  
**Duration** - 2 months
- **Kubeflow Pipeline for Continuous Training & Benchmarking** - Created First Generic version of Benchmarking setup to measure the performance of various features using **Python OOPS**. Using **Docker** and kubeflow, an Integrated pipeline was made for training our models on more data and simultaneously benchmark on fixed dataset, generating reports containing comparison of new vs old Results.  
**Duration** - 2 months
- All the work was done on **GCP**. Also contributed in other features such as Emotion Detection, Object Detection, etc.

## ACADEMIC PROFILE

**UDACITY, Nanodegree Program** .....2020[Mar] - 2020[May]

**Machine Learning Engineer Nanodegree** - ML workflows, Hands on projects using AWS Sagemaker, S3, and other AWS services.

**GreyAtom, Mumbai** ..... 2018[Dec] - 2019[Sept]

**Data Science Masters Program with Deep Learning** - Hands on knowledge of Machine Learning Algorithms, Deep Learning, EDA, Data Visualization, participated in 2 Hackathons and Capstone.

**VESIT, University of Mumbai** .....2015[June] - 2019[May]

**BE Electronics and Telecommunication** -

**CGPA - 8.11** || Learned and worked around controllers and IOT.

## CERTIFICATIONS & COURSES

**Coursera, Machine Learning** - by **STANFORD University, [Andrew Ng]** - Understanding & application of ML Algorithms.

**Coursera, Deep Learning Specialization** - by **deeplearning.ai, [Andrew Ng]** - Understanding and Application of various Deep Learning techniques. Projects using DNN, CNN, RNN, LSTM, LRU for various tasks like image recognition, object detection, NLP, etc.

**CS231n: Convolutional Neural Networks for Visual Recognition** - **STANFORD University** - Basics of Deep Learning, NN, CNN, RNN for Visual Recognition with Python and Numpy. Theory covered. Course covered by Andrej Karapathy, Fei Fei Li and Justin Johnson

**NPTel, Data Structure and Analysis using Python, IIT Madras** - Basics of python programming, algorithms, data structure, scored 70%

**Udemy, Python 3: Deep Dive (4 parts)** - Intermediate to Advanced Level of Python 3. Deep dived in Python. Extensive knowledge gained. Became more comfortable/proficient with Python after this course.

**Coursera, Advanced Machine Learning on Google Cloud Platform** - by **Google AI** - Machine Learning on GCP using its ML Engine.

**Udemy, Machine Learning A-Z: Hands on Python in Data Science** - This course gave extensive knowledge about Machine Learning and helped me learning complex theory, algorithms and coding libraries in a simple pythonic way, mathematics behind ML algorithms

**Pursuing [Udemy]-** REST APIs with Flask , Complete Kubernetes Tutorial by School of Devops, Tableau A-Z, etc. through projects.

## PROJECTS

**[Dog Breed Classifier](#), Kaggle Problem -**

A multi-class image classification problem solved using PyTorch. The Aim was to build an ML workflow (consisting of 3 models) that could be used within a web app to process real-world, user-supplied images in the following ways:- Human face detector, Dog detector, and Dog breed Classifier. [[Blog link](#)].

**[Sentiment Analysis using AWS Sagemaker](#), Udacity Project-**

Created an end-to-end ML pipeline and deployed on AWS using its REST API and Lambda services. Trained an LSTM model for sentiment analysis on IMDB movie reviews. Created a web app that is connected to the deployed models endpoint.

**[AirBnB Seattle Data Analysis](#), Kaggle problem-**

A Data analysis and insight generation on AirBnB's Seattle city data for the year 2016-17. Analysis was done using the CRISP-DM process. Data Insights were generated using visualizations. Wrote a blog which featured on *Towards Data Science* [[Blog link](#)].

**[Plagiarism Detection using AWS Sagemaker](#), Udacity -**

Created an end-to-end ML pipeline and deployed on AWS. Built a plagiarism detector that examines a text file and performs binary classification, labeling that file as either plagiarized or not, depending on its similarity with the provided source text.

**[Upvotes Prediction \(Enigma Codefest Challenge\)](#), Analytics Vidya** - Predicting the number of upvotes for a query. Used various regression techniques such as Decision Tree, AdaBoost Regressor to solve this problem.

## SKILLS

**Python** - Numpy, pandas, sklearn, scipy, matplotlib, seaborn, beautifulsoup, Flask, keras, tensorflow, pytorch, docker, mxnet, NN, CNN, R-CNN, RNN, json, yaml, OOPS

**Cloud, Deployment, ML-ops, others** - *Google Cloud Platform*, docker, container orchestration, kubeflow, ML-flow, kubernetes, jenkins, GIT, REST API, Conda, VSCode, Jupyter, MySQL, Tableau

**Data Science Skills** - Machine Learning, Deep Learning, Computer Vision, Exploratory Data Analysis, NLP, Data Visualization, Data Wrangling, Insights Generation, Statistics