

ABHIK SARKAR

Deep Learning Engineer with affinity towards Computer Vision

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[DataCamp](https://www.datacamp.com/profile/abhiksark) : /profile/abhiksark

[Kaggle](https://www.kaggle.com/abhiksark) : abhiksark



EXPERIENCE

Quantiphi Analytics Solution Pvt Ltd, Machine Learning Engineer

April 2019 - PRESENT

Currently Working as a Part of the Video Intelligence Team in [Athena's Owl](#) which is a Media Based AI Product. Responsible for generating new AI features in early-stage Product and then subsequently scaling it.

Deloitte, Business Analyst

June 2018 - March 2019

Got Certified in Workday Integrations Platform which is Leading Cloud HRMS solution worldwide. Worked with HR Analytics. Was Staffed in a Fortune 500 Giant and delivered a Finance Module build on top of Workday.

EDUCATION

National Institute of Technology, Raipur - B.Tech

AUG 2014 - MAY 2018

Bachelors in Computer Science

Udacity - Data Analyst Nanodegree

<https://github.com/abhiksark/Udacity-DataAnalyst-Nanodegree>

Coursera -Cloud Engineering With Google Cloud Platform

DataCamp - Data Scientist Track

PROJECTS

Setting up Face Pipeline For Platform:

- Was part of a team which set up the complete Face Recognition Pipeline having various parts such as **Detection, Recognition and Clustering** it was later consumed in **Both Sports and General Entertainment Use Cases**
- Worked towards the creation of **Machine Learning CI/CD pipeline in Jenkins** to continuously update the changes in **GitLab** and also Productionizing the models using **TorchScript** to achieve **7x speedup**.
- Worked on a method to automate the human effort of manual annotation using [Clustering of Faces using Linkage Based Face Clustering via Graph Convolution Network](#)

Identifying People in Various Sports using OCR

- Working in making a **GD/PR compliant person Identification system** where we are not using the persons face to identify him for a Major World Sporting Event.
- Utilized **OCR in Wild Methods** to localize and identify them and then recognize them correctly.
- Researched on Person ReIdentification Problem and conceptualizing its usage.

Detecting Diabetic Retinopathy With Deep Learning:

The major objective of this project was to **early identify the effect of Diabetes** in early stages, we were given a 5 level of severity of the Disease corresponding to the 5-Classes which is to be predicted. Got a **Score of 0.74** which corresponds to the **top 30 Kaggle score**.

<https://github.com/abhiksark/Diabetic-Retinopathy-Classification-ConvolutionalNeuralNetwork>

Label faces in Group photos using Facenet

Created Image Embeddings using **FaceNet Architecture**, clustered those **images Embeddings** using **Hierarchical Clustering**. Labelling the images with the help of clusters and running the classifier in the labelled images to generate an **SVM classifier**. Using the classifier Identify the Faces in the Group Photo and put a label on them using a bounding Box. The detection part of the project is hosted Online.

<https://github.com/abhiksark/Face-Recognition-FaceNet>

SKILLS

Python, Shell, Java, C++,

Pytorch, TensorFlow, Pandas, NumPy, Scikit-Learn, Matplotlib, Seaborn, Keras, git, Conda, MySQL, Docker, Kubernetes, Kubeflow, MLFlow, Jenkins, Hadoop, Spark, PostgreSQL, Spyder, VSCode, Jupyter, NoSQL, Google Cloud Platform, Amazon SageMaker, AWS

Deep Learning, Machine Learning, Computer Vision, Statistics

ACHIEVEMENTS

- Won Backyard Data Scientist Competition organized by IIIT-Naya Raipur.
- Stood First in Vigyaan, a prototype making competition at National Institute of Technology Raipur.
- Won Kaggle Competition Bronze in Santander Customer Transaction Prediction Challenge.