# Sharad Mishra

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## EXPERIENCE

**QUANTIPHI** Aug. 2020 – Oct. 2020
*Machine Learning Engineer* Bangalore, India

- Had opportunity to work on **semantic segmentation problem** to determine the region of the different diseases by looking at the 3D medical image provided.
- Employed **U-Net** and **Mask R-CNN** architecture with Mask R-CNN giving better **accuracy of 97%.**
- Technology used: **TensorFlow, OpenCV, Augmentor, TensorBoard, scikit-learn**

**GREYATOM SCHOOL OF DATA SCIENCE** May 2019 – June 2019
*Data Science Intern* Mumbai, India

- Performed image data retrieval and preprocessing on a **fashion apparel csv dataset** containing more than **10lacs rows**.
- Solved image classification problem through **transfer learning** on **ResNet50** and **VGG-16** architecture.
- Technology used: **Python, Keras, CNN, Pre-trained networks, Pandas, NumPy**

**PROFESSIONAL GAP** Jan. 2021 – May 2023
*Pursued the civil services examination* Varanasi, India

## PROJECTS

**END TO END IMAGE CLSSIFICATION** | *DVC, Docker, Git, AWS*

- From inception to deployment,incorporated robust **MLOPS practices**.
- Implemented a planned workflow, including writing **template code, managing dependencies, setting up logging** and implementation of components of **data ingestion, base model, callbacks, model trainer and evaluation**.

**YOLO OBJECT DETECTION** | *Darknet, CUDA, Bbox, OpenCV*

- Created a **custom YOLOv3 architecture** from scratch and then using advanced techniques of **anchor boxes** and **non-max suppression**, accurately predicted **bounding boxes** for different objects in an image.
- Predicted different objects in an image using **Darknet framework** based **YOLOv4 model** trained on a custom dataset of annotated images.

## EDUCATION

**ABV-Indian Institute of Information Technology and Management** July 2015 – May 2020
*Integrated(BTech. + MTech.) in Information Technology* Gwalior, India

- **Coursework**: Data Structures, Algorithms, Databases, Computer Systems, Machine Learning
- **CGPA**: 7.17%

**Central Hindu School** May 2012 – July 2014
*Secondary and Higher Secondary* Varanasi, India

- **Class XII**: 91.8%
- **Class X**: 10.0 CGPA

## SKILLS

**Machine Leaning** : Feature Engineering, Supervised & Unsupervised Learning Algorithms, CNN, RNN, LSTM networks, GAN, Transformer

**Development tools** : Python, **SQL, PowerBI**, NumPy, Pandas, Scikit-learn, OpenCv, TensorFlow & Keras.