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| Position |  | Associate Data Scientist | |
| Name of Firm |  | Vee Technologies Pvt Ltd | |
| Name |  | Dhanashree.V | |
| Date of Birth |  | Feb 25, 1995 | |
| Education |  | **Master in Computer Science (M.Sc C.S)** | |
| Technical Skill set |  | Programming Language | Python , C++ |
|  | AI Frameworks | Numpy, pandas, SK-learn, Matplotlib, Scipy, Tensor flow, Keras, Pytorch, Caffe.  CV: OpenCV, PIL, Skimage, Dlib, ImageMagick-Wand |
| Cloud Technologies | Microsoft Azure |
| Web Technologies | Flask |
| Database | SQL, MySQL , SQL-ALCHEMY |
| Tools | Python IDE, Visual studio, Anaconda, Pycharm, Co Lab |
| Source Control | TFS,Git |
| Operating System | Windows, Linux(Ubuntu) |

**Summary of Key Training and Certifications:**

* Python Data science toolbox(DATACAMP),
* Deep learning specializations(COURSERA),
* Object-oriented programming in C++(Sona College of Engineering)
* Data structures and Algorithms(Vee technologies)

**Personal Summary:**

* Have 3.5 years of experience in all phases of Artificial Intelligence including Design, Computer vision –object Detection and Facial Recognition, Study, Programming, Testing and Implementation
* Collaborate with the interns to train them according to the projects
* Training includes the data visualization, programming, Quantitative analysis, Mathematics, statistics, Linear Algebra, Machine Learning algorithms.
* Undergone training for Statistics, Machine Learning, Deep learning and python for Data science.
* EDA and Pre-processing techniques.
* Apply unsupervised to techniques to find hidden natural clusters in the data if any which might help in improving the accuracy of the models

**Project Experience:**

**Project Name : Invoice Data Extraction[VTM]**

**Client :** Internal

**Team Size : 8**

**Description :**   The scope of this project is to classify the invoices and extract information from the invoices.

**Environment :** OpenCV, Python, PIL, NLP-Re, SQL

**Roles and Responsibilities:**

* Involved in collection of images From the Internal client team and classify those invoices according to their types using regular Expression and OpenCV method.
* Involved in creating the Preprocessing techniques for overall Image.
* Using Pattern matching in NLP and OpenCV technique Extract the data according to requirement from the Client.
* Involved in the Accuracy improvement for the Data extraction for the invoices.
* Involved in the Storing the extracted data in Data Base for later usage.

**Project Name : Asset Management System**

**Client :** Internal

**Team Size : 2**

**Description :**   The scope of this project is to classify the invoices and extract information from the invoices.

**Environment :**  OpenCV, Python, Faster R-CNN.

**Roles and Responsibilities:**

* Involved in Gathering the video requirements from our internal management.
* Involved in annotating the image containing Assets and Trained using Faster R-CNN.
* Involved in collecting the trained model and validate with our input data and then add the id to the similar assets.

**Project Name : Invoice Preprocessing**

**Client :** Internal

**Team Size : 1**

**Description :** The scope of the project is to make preprocessing for the invoices, bills and Health Care charts to extract the data and improving accuracy.

**Environment :** OpenCV, Python, PIL, Skimage, ImageMagick-Wand.

**Roles and Responsibilities:**

* Involved in Collecting the invoices, bills and Health Care charts from the Medical team.
* Involved in creating the preprocessing steps for overall image using OpenCV, PIL, Skimage, and ImageMagick-Wand to preprocess the image.

**Project Name : Queuing Management System**

**Client :** Internal

**Team Size : 3**

**Description :**   The scope of this project is to make an Id with Faces for the person standing in Queue.

**Environment :** OpenCV, Python, Resnet, Caffe.

**Roles and Responsibilities:**

* Involved in fitting camera in front of counter by using camera capture the live video stream using OpenCV.
* The pretrained Caffe model trained with Resnet will detect the Faces and we create a program to make id for different Faces in the Queue.
* To avoid the duplicate id for single face, Centroid tracker is used to identify one bounding box for one face. Then the id is deleted and the id will change with next faces

**Project Name : BotH**

**Client :** Internal

**Team Size : 3**

**Description :**   The scope of this Product is to Extracting data from the Health Insurance forms, Medical Bills and invoices and custom inputs used to store the data.

**Environment :** OpenCV, Python, Imageai, YOLO-v3, NLP-Semantic Analyzer, GCN, SQL, Flask.

**Roles and Responsibilities:**

* Extracting data from the Health Insurance forms and other Kind of templates like Medical Bills, Invoices and used to store the data.
* Involved in Annotating and creating a model trained by using YOLO-v3
* Involved in creating the automatic annotation as like as the manual annotation tool to create xml annotated file.
* Involved in Collecting the Invoices from the User and create preprocessing for the whole image.
* Involved in Creating the Classification method using Geometric hashing for unsupervised learning.
* Then we use NLP semantic analyzer method to get the labels.
* We use GCN method to extract the data from the invoices and this whole process is the fusion of NLP+CV integration
* Involved in creating DB tables for storing the Extracted data for Medical Bills using SQL database and Flask API to convert them as API.

**Project Name : Allied-Indexing**

**Client :** Internal

**Team Size : 3**

**Description :**   The scope of this Product is to Extracting the Data in the clusters of medical Charts containing Dental bills, Insurance Form, Patient Charts.

**Environment :** OpenCV, Python, PIL, Spell checker model, SQL

**Main project features:**

* Involved in Collecting the Invoices from the User and create preprocessing for the whole image.
* Involved in creating the data extraction method using CV method.
* Validate the Extracted with Spell checker model and stored in the Database.

**Project Name : Facial detection**

**Client :** HIREMEE (External)

**Team Size : 2**

**Description :**  The scope of this project is to validate whether the person face is recognized or not when she/he attending the online exam using timestamp.

**Environment :** OpenCV, Python, HOG –Face detection algorithm.

**Roles and Responsibilities:**

* Involving in collecting the facial images from Hiremee team.
* Involved in Implementing the HOG (Histogram of Gradient) algorithm for detecting the faces in the image.
* Involved in creating the timestamp from the Image we can collect the date and Time and create a timestamp program to get a random time from the start time to end time where the faces were captured during examination.
* Validation process to check the outcome of the Faces.

**Project Name : Captcha recognition**

**Client :** Internal

**Team Size : 3**

**Description :**   The scope of this project is to automatically detect and recognize captcha for 7 different types using Computer vision.

**Environment :** OpenCV, Faster RCNN, Pytorch, Tensorflow, keras.

**Main project features:**

* Involved in collecting the datasets for 7 different types of captcha.
* Involved in creating the separate models using faster RCNN, Pytorch for recognition of captchas.
* Conversion of the 7 models into exe connected with further websites which will automatically recognize and place those captchas with RPA.