**Mallikarjuna Manne**

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**Data Scientist**

**Summary:** **Data Scientist** backed by **3.4 years** of experience in Machine learning, Deep learning and Data Pre-processing. Passionate about Data science and technology. Flexible to Learn new technologies and apply in Projects. Superior problem-solving abilities and strong analytical thinking. Ability to write high-performance code in Python, queries in SQL & perform statistical analysis.

* Experienced in applying Machine Learning techniques to Structured & Unstructured Data.
* Experienced in creating APIs using Python Flask, FastAPI, and .Net MVC frameworks.
* Experienced in preprocessing the Images using Computer Vision programming (with tools such as OpenCV).
* Experienced in labeling the Images using tools such as LabelingImg and VoTT.
* Implemented Named entity recognition for art-work change, which helps the clients to pick the existing appropriate artwork, which reduced the time for change by 4 hours.
* Implemented language translation model for content management system.
* Experienced in implementing Image recognition system using Deep Learning and TensorFlow techniques.
* Experienced in implementing sequence generation systems using NLP and Deep Learning technologies.
* Experienced in Implementing semantic search functionality using Elasticsearch and Solr search.

**Professional Experience**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| --- | --- | --- |
| **Role name** | **Organization** | **Duration** |
| Software Developer | Perigord Data Solutions India Pvt Ltd, Hyderabad | 01 Mar 1017 – 01 Aug 2018 |
| Data Scientist | Perigord Data Solutions India Pvt Ltd, Hyderabad | 01 Aug 2018 - Present |

**Carton tradename matching**

**Client**: Perigord

**Domain**: Product

**Role**: Data Scientist

**Technologies**: Python, Deep Learning, OpenCV, YOLOv3, VoTT

**Description:** As companies manufacture lot of medicines, the medicines are placed in cartons, where the medicine name (trade name) is printed 3 times at different locations at different sizes, the project is to identify the object and compare the text with the actual name.

**Key Deliverables:**

* Trained YOLOv3 from scratch, labelled the existing data using VoTT (Visual Object tagging tool) for labels and trained an object detection model.
* Used OCR for character identification and comparison.

**Image Search**

**Client**: Perigord

**Domain**: Product

**Role**: Data Scientist

**Technologies**: Python, Deep Learning, OpenCV, Mobile net, Image net

**Description:** Image search engine is exactly same as text search engines, only providing an image query instead of text query then it finds the visually similar or relevant images. It takes an Image, Preprocess the image using OpenCV, extract the features using Deep Learning technology and finally compares the features with database and produces the similar images.

**Key Deliverables:**

* Key role in designing and developing the project from scratch.
* Key role in Image preprocessing.
* Used mobile net pre-trained model on Image net removed the last layer for getting the features for comparison.
* Created an API using FLASK to consume the model in various projects.
* Deployed and maintained the model.

**Text sequence generating system**

**Client**: Perigord

**Domain**: Product

**Role**: Data Scientist

**Technologies**: Python, Deep Learning, NLP, LSTMs

**Description:** Text sequence generating system is to predict the sequence for a text. This project helps the users to get suggestive text, this is helpful for the users for filling the documents.

**Key Deliverables:**

* Key role in designing and developing the project from scratch.
* Processed the text using NLP.
* Used Encoder-Decoder LSTM architecture for better prediction of sequence text.
* Created an API using FLASK to consume the model in various projects.
* Deployed and maintained the model.

**Named Entity recognizer**

**Client**: Perigord

**Domain**: Product

**Role**: Data Scientist

**Technologies**: Python, Deep Learning, NLP

**Description:** To identify the correct artwork to pick, the user have to search through all the artworks available, this project will pull the appropriate finished artwork(s) and recommend to the user, this reduced the turnaround time for one case by 10 mins.

**Key Deliverables:**

* Key role in designing and developing the project from scratch.
* Processed the text using NLP.
* Used Spacy inbuilt NER library, apart from that for the domain specific keywords and for different date combinations wrote regular expressions for handing all the cases.
* Created an API using FLASK to consume the model in various projects.

**Language translation**

**Client**: Perigord

**Domain**: Product

**Role**: Data Scientist

**Technologies**: Python, NLP, Sentence transformers.

**Description:** Users while updating the text in the package leaflet, need to update the text for the medicines in all languages it is manufactured, this is a tedious process since we need experts from different languages. Our model will translate the modified text into user selected languages, and users will only review the updated text to confirm and print on the package leaflet, this saved around 20 mins of time for one leaflet for one language.

**Key Deliverables:**

* Used sentence transformers from hugging face library for language translation.
* Created an UI for uploading the modified document which converts into user selected language and deployed in GCP.

**GLAMS**

**Client**: Perigord

**Domain**: Product

**Role**: Data Scientist

**Technologies**: Python, Machine Learning, Deep Learning, OpenCV, NLP, TensorFlow, C#, MVC, Entity Framework, SQL Server

**Description:** GLAMS is the Global Artwork Management System used in the pharma artwork management system. The main purpose is to simplify the artwork process and to reduce the risk of audits. GLAMS is the configurable product that varies based on customer requirements and needs, GLAMS is having top 20 to 25 pharma industries as clients over the world.

**Version details:** Current running version of GLAMS is GLAMS 5.0. It is the major release we are working on. For every six months we will release a new version with new features. We are following AZILE methodology to plan and release each version.

**Key Deliverables:**

* Worked on commercial and customer activity data analysis, including data collection, table treatments, database information, problem analysis, solution proposal, and implementation.
* Analyzed and processed complex data sets using advanced querying, visualization, and analytics tools
* Designed and developed console apps to deliver weekly automated results.
* Implemented WEB API’s and Web Services using Python FLASK, DJANGO, and C# MVC.
* Created and maintained SQL database objects, complex Stored Procedures, Tables, Views & Joins and other statements for various operations.
* Identified, measured and recommended improvement strategies for KPIs across all business areas.
* Preprocessed the data by checking for missing values and transforming features into an appropriate form for modeling.
* Successfully implemented Machine Learning models to predict the duration of a job or a task.
* Implemented time series models in many functional areas.
* Deployed and maintained Machine Learning models (SVM, Decision Trees, Random Forest, KNN, Linear and Logistic regression algorithms etc.).
* Implemented Dashboards to convey a greater number of points and valuable information about data.
* Presented Insights of data to business managers on a regular basis.

**Credentials**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Educational Qualifications:**

Expected completion of M.Sc. in Machine Learning & AI from IIITB & LJMU is June 2023.

Qualified B. Tech in Electronics and communication engineering with 71.7% from JNTU University in the YR 2012 – 16.

Completed 11th and 12th with 80.5% from P.B.N College in 2012.

**Technical:**

**Data Science:** Machine learning, Deep learning and Object detection techniques

**Image processing:** Computer vision (Open CV)

**Text processing:** NLP

**Programming Languages:** Python, R, C# and C

**Visualization:** Python in built libraries and Tableau

**Web Technologies:** HTML, JavaScript, XML, jQuery, Web Services and Kendo UI

**Database technologies:** SQL, PSQL, Hadoop, HBase and Hive

**Operating Systems:** Windows, Linux

**IDE’s:** PyCharm, Jupyter notebook, Spyder and Visual Studio

**Repositories:** SVN and GitHub

**(MALLIKARJUNA MANNE)**