SUMEET SEWATE

Data Scientist

https://sumeetsewate.github.io/resume/
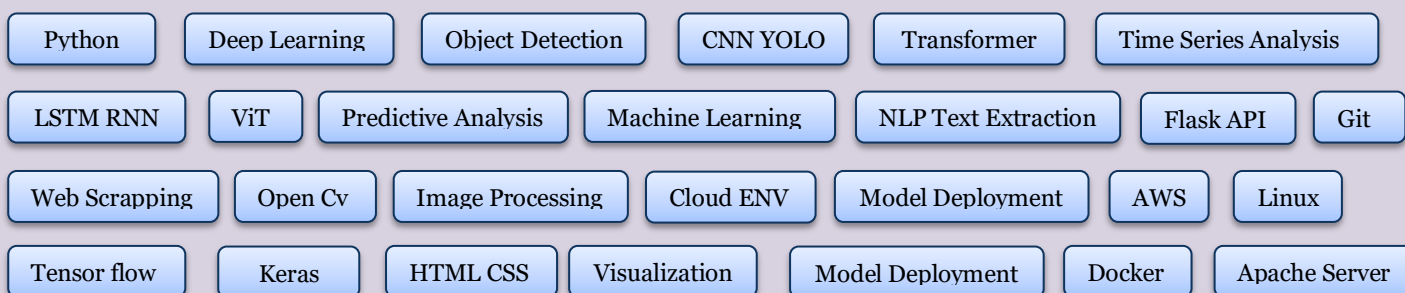
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SUMMARY

Self-Motivated Data Scientist with 3.7+ years of experience expertise in the field of AI,ML, NLP, Predictive Analysis, Image-processing, Deep-learning, computer vision, AWS Deployment, API-Flask and Sound Knowledge of Machine Learning and Deep learning Algorithms and Statistics with Data Visualization techniques from scratch to deployment.

SKILLS

Python	Deep Learning	Object Detection	CNN YOLO	Transformer	Time Series Analysis
LSTM RNN	ViT	Predictive Analysis	Machine Learning	NLP Text Extraction	Flask API — Git
Web Scrapping	Open Cv	Image Processing	Cloud ENV	Model Deployment	AWS — Linux
Tensor flow	Keras	HTML CSS	Visualization	Model Deployment	Docker — Apache Server

EXPERIENCE & PROJECTS

NEC Corporation India Private Limited
Data Scientist (May 2021 - Present)

1. **Forecasting Scrap for manufacturing process using LSTM- EPL**

   <u>Description:</u> The client has requirement of creating a predictive model in which they can forecast machine generated scrap and control the ejection quantity of a scrap.

   <u>Responsibilities:</u> Understand the Time Series Data and process; perform the exploratory data analysis, created the training

2. **Fraud detection using Machine Learning Model - Bajaj**

   <u>Description:</u> The client has requirement of detecting fraud claim submitted by insured customer to minimise the insurance company loss by the fraud claim pay-outs.

   <u>Responsibilities:</u> Understand the claim dataset and process, perform the exploratory data analysis, building and validating the t different ML models e.g. Logistic regression, Random Forest, XG-Boost, decision model and tested on unseen data.

3. **Entities detection using custom NER Model - SEBI**

   <u>Description:</u> The client has requirement of detecting and recognising the specific entities from the financial documents.

   <u>Responsibilities:</u> Understand documents of pdf form; extract the text, table data from the documents, extracted and log the required entities using Python, Regex, and custom NER model.

4. **E-Market Analytics Solution – NEC In House Solution**

   Description: Developing the Complete e-market analytics solution

   Responsibilities: Built web-scraper, anomaly detection, price gap analysis, market basket analysis, forecasting the different department sells using python, DBSCAN, GMM, Regression, apriori algorithm, cross selling, customer segmentation. Built python flask APIs and deployed over server.

DigiScape Tech Solution (An India Today Group)
Software Developer (AI/ML) (March 2019 – May 2021)

1. **Learning Assessment Platform for various exams using ML Algorithms**

   Description: Analyse the student past performance progress and help them to improve their study and scoring pattern.

   Responsibilities: Understand the student past performance based on their score, built ML models, predictive analysis, built different API and deployed over the server.

2. **Image Text Detection & Recognition using Deep learning and Open-CV**

   Description: Detection & Recognition of embedded text in Image and Image processing to automate the manual work.

   Responsibilities: Extracted Image from word document, classification of Image as Raster & vector, detecting Text on Images, Detecting and enhancing blur quality images, Text Boundary detection using East detector and extracting using OCR model using open CV and Google Vision API.

3. **Learning Document Classification of journals of research paper**

   Description: Classification of journal of research paper for peer review of publication industry

   Responsibilities: Understand document, extract the text from word using docx python library, classifying the document using ML algorithms using NLP, Doc2Vec, and Logistic Regression.

4. **Peer Review platform for reviewer**

   Description: Developing the Peer Review platform to automate the reviewing the process using AI

   Responsibilities: Understand and Analyses the document, extract the text from word using docx python library, Matching the content using Python, Regex, text manipulation NLP e.g. spacy and Image Matching using cosine similarity, Identifying different entities using spacy NER, checking the readability of document using language Statistical parameter, visualization, also suggest the authors reviewer name for journal using Doc2Vec url libs, regex etc.

5. **Object Detection**

   Description: Detecting different objects through scanner kept in their warehouse to fetch objects more accurately

   Responsibilities: Understand connecting mapped ID/QR codes with the existing database tables containing object information. Created object detection model which can recognize and give absolute information of the object. Managed pool of pictures of the objects & mapped them with existing information in the database. In Object detection model used YOLO V3 object detector technique and OpenCV.

CAPSTONE PROJECT

1. **Pothole Detection using Yolo3**

   Detecting the pothole of roads, train the models in Google colab and validate using open CV and python

ACADEMIC PROJECTS

- **Human Activity Recognition Based Using CNN Model (PGDBA CDAC, 2018-19)**
  The project is to develop a Human Activity Recognition based on Accelerometer and gyroscope sensors signals in this project
  model CNN (Convolutional Neural Network) which uses the sample collected on human activity i.e. walking, sitting, standing,
  running etc.

CERTIFICATION & ACCOMPLICEMENT

1. **AWS Data Analytics Course completion Certificates** - AWS
   Covered S3, Glue, Athena, EMR, kenesis, Quick Sight Services
2. **Advance Computer Vision with Tensor flow *** - Coursera
3. **Introduction to Tensor flow for AI/ML/DL** - Coursera
   Hands on practice on Vision problems like Image classification/Regression, Detection, Segmentation using Architectures like
   net, FCN, Faster-CNN, ResNet50, VGG etc.

EXTRA CURRICULAR ACTIVITY

- **Technical blog on Object Detection Algorithms** - **https://sumeet-sewate.medium.com/**

TOOLS & OTHER SKILLS

- GIT
- Postman API
- Knowledge of Docker
- Putty
- Knowledge of PySpark
- Html & CSS

EDUCATION

PG Diploma in Big Data Analytics	Advance Diploma in Dot Net Technology	BE IN ELECTRONICS & COMMUNICATION ENGG
CDAC, NOIDA 2018-2019	NIELIT, CALICUT, KERALA 2017	NAGPUR UNIVERSITY, NAGPUR, 2015