PRAJUAL PILLAI

ML Engineer

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EXPERIENCE

ML Engineer

Searce Inc.

July 2021 - Ongoing

Pune, India

Client: Healthians

Septermber, 2022 - Ongoing

- Developed collaborative filter based recommendation system using Tensorflow-recommenders to recommenend medical tests to clients
- Trained, tuned & deployed an 80% accurate model in AWS Sagemaker
- Deployment of the same also done using AWS Lamda & AWS ECR
- · Setup AWS API Gateway as the trigger for the Lambda deployment
- Performed exploratory analysis of over 6TB of data in order to identify and aggregate parameters for the model

Client: Flipkart

January - September, 2022

- Worked with Google team to migrate 3PB of on-prem data to GCS
- Mapped bucket & object policy from AWS to GCS at scale
- Deployed the multi-threaded python code on GKE for data migration
- Performed data verification & analysis of the copied objects at scale

Product: Recognic

August - December, 2021

- Used **DML** to build models to extract text from custom documents
- Utilised Vision API to extract text from generic documents
- Increased performance of existing code by 50% by optimising the encoding used for the vision calls

COURSE PROJECTS

Bengali digit recognition

Guide: Prof. Amit Sethi, IIT BombayMarch - June, 2020

- Achieved 95% accuracy while training a 9 layered CNN sequential model
- Extracted Bengali digits from an image after binarising, contouring & segmenting using OpenCV library

Employee Attrition Classification

Guide: Prof. Amit Sethi, IIT Bombay January - May, 2020

- Data pre-processing carried out using heat maps, feature engineering, label encoding and standardisation.
- Performed classification using LDA, QDA, KNN, SVM & random forest
- Achieved an accuracy of 91% & 89.8% on the testing & validation sets respectively while using LDA model

Indoor Positioning Using Wi-Fi signal

Guide: Prof. Vinay Kulkarni, IIT Bombay Sep' - Nov', 2020

- Performed classification to locate a device using its WiFi signal strength
- Imputed missing values in the dataset using mean, median & KNN
- Compared performance of various classification models such as LDA, QDA, SVM, Decision Tree & KNN

EDUCATION

M.Tech, IIT Bombay

Manufacturing 2021 Performance-8.79

B.Tech, Kerala University

Mechanical 2017 Performance- 7.45

Intermediate, St. Fidelis College

I.C.S.E 2013

Performance- 81.3

ACHIEVEMENTS

Secured 99.22 percentile in Graduate Aptitude Test in Engineering(GATE-19) among 1.67 lakh candidates

CERTIFICATES

GCP: Professional ML Engineer, Associate Cloud Engineer

Coursera: Applied Data Science Capstone, Neural Networks and Deep Learning, Python for Data Science and AI

TECHNICAL SKILLS

Programming: Python, Java

AWS: S3, Sagemaker, ECR, Lambda, Glue GCP: GCS. BigOuerv. Pub/Sub. Spanner. Cloud Functions, App Engine, VertexAI, Cloud Scheduler, Vision API, Cloud Composer

Visulization: Matplotlib, Folium

ML Frameworks: Tensorflow, PyTorch

EXTRA CURRICULAR

- Represented Mechanical Dept. in the PG inter department volleyball tournament at IITB.
- · Represented Hostel 12 in volleyball in the Hostel Championship 2020, IITB.