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SRINATH RAMALINGAM

CITIZENSHIP - USA

OVERVIEW

2 years of Machine Learning & Data Science experience in fast paced startups. Seeking opportunities to innovate and experiment.

WORK EXPERIENCE

Machine Learning Engineer
May 2022 - Present

Betterview
San Francisco, CA

- Developed accurate parcel boundary detector using aerial imagery, achieving Mean IoU of **91%.**
- Integrated state-of-the-art models (Mask2Former, HRNetOCR, & TransUnet) into training pipeline.
- Built pipelines for monitoring data drift/leakage, gathering new data, dataset generation, & model evaluation.
- Participated & presented in weekly literature reviews on latest computer vision research.
- Skilled in code refactoring, statistical analysis, & data visualization.

Data Science Intern (NLP)
November 2021 - April 2022

App Orchid Inc
San Ramon, CA

- Boosted entity extraction service accuracy by **10%** and improved throughput by **20%** by creating and training a text-based clustering model to classify legal OCR documents.
- Utilized advanced sentence encoding methods, including Spacy, BERT, InferSent, and tf-idf, for effective feature engineering.
- Built a user-friendly Flask frontend to facilitate data ingestion and kick off training pipeline.

Machine Learning Engineer Intern (MLOps)
September 2021 - October 2021

Telepath
Los Angeles, CA

- Developed a representation learning model based on the MLP mixer. Handles multiple input modalities: ***image,text,timeseries***
- Evaluated it on 5 benchmark RL datasets. Observed an average of ***20%*** more throughput/core than the Vision Transformer.

PROJECTS

Student Attention Monitor for Online Classrooms

Evaluates Attention Span of Students Using Gaze Tracking

- Created a gaze tracking model & served it on a Flask API to predict the attention span of students in online classes. ***Accuracy - 94%.***
- Derived 10 image feature encodings from the webcam input and passed them as inputs to the NN model.
- The encoded features contain the results from pupil tracking (key-point detection), face detection (object detection), head pose & head tilt estimation (Perspective-n-Point).

Other Projects

Language Translation using Attention, Named Entity Recognition for Information Retrieval, Song Recommendation System

EDUCATION

VIT UNIVERSITY, Chennai
July 2017 - July 2021

Bachelor of Technology, Civil Engineering
8.1/10 CGPA

TECHNICAL SKILLS

- **Languages**: Python, SQL, R, Scala, MATLAB, C++
- **ML & DL**: Tensorflow, Pytorch, Scikit-learn, OpenCV, NLTK
- **Data Visualization:** Tableau, Matplotlib, Seaborn
- **Database**: Postgres, MongoDB

CERTIFICATIONS

- **Applied Data Science with Python Specialization : University of Michigan**
- **Tensorflow Developer Professional Certificate : deeplearning.ai**
- **Deep Learning Specialization : deeplearning.ai**
- **Data Structures & Algorithms : Jose Portilla**

KEY SKILLS: STATISTICAL ANALYSIS, SEMANTIC SEGMENTATION, NAMED ENTITY RECOGNITION, DATA VISULIZATION