Ashwin U Iyer

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EDUCATION

Vellore Institute of Technology

Chennai, India

Bachelor of Technology - Computer Science; GPA: 8.83

June 2019 - June 2023

SKILLS

• Languages Python 3, SQL

Scikit-learn, PyTorch v1.0, SpaCy v3.0, TensorFlow v2.0, Keras, Django v3.0, PySpark v3.3, MLflow v1.30 Frameworks

Jupyter Notebook, VSCode, Git, GitHub Tools

EXPERIENCE

Machine Learning Intern

Bangalore

May 2022 - Present Tata Elxsi

- Achieved 87% accuracy with neural network on predicting user likeability for recommendation at startup.
- o Packaged recommender model using MLflow for experimentation and tracking with 98% coverage
- Created recommendation pipelines using Databricks that process 1 million data points in under 1 minute.

Computer Vision Intern

Remote

SHARD Analytics February 2022 - April 2022

- o Conceptualized an OCR system with 83% digitwise accuracy using Python and Tensorflow.
- Served a neural network model with FastAPI with a response time of 0.087 seconds.
- Trained a CNN model with 9 degree angle error in image deskewing.

Deep Learning Research Intern

Remote

A STAR Labs May 2021 - April 2022

- o Built a privacy-preserving Federated environment to classify Alzheimer's using CNNs and Siamese Networks with 46%
- o Implemented custom optimization algorithms such as FedProx, FedNova and FedAvg for federated training with an average triplet loss of 1.2 per round.

Projects

• Deep Learning Recommendation System - (NLP, Python, Tensorflow)

- Devised a Neural Network based Recommendation System that uses NLP to predict MovieLens ratings with 60% recall.
- Used GloVE Word Embeddings as baseline to generate user and movie embeddings with a 4GB GPU.
- Designed the system that performs at par with industrial standards.

• Fake News Checker - (NLP, Python, Flask, Tweepy, Tensorflow)

- Devised a Neural Network system that predicts authenticity of news with 86% accuracy using Glove Word Embeddings.
- o Executed the designed system using Tweepy via a Flask application to profile authenticity of News Channels based on 200 tweets in 7 seconds.
- Wrote an API endpoint for the model which evaluates and scores with a response time of 0.12s.

• Pandatorch (PyTorch, Python, Poetry, Pandas)

- Published a lightweight package to integrate Pandas and scikit-learn pipelines with PyTorch at just 34.3 KB.
- Integrated support of CUDA as well as CPU based training for PyTorch 1.0+.

ACHIEVEMENTS

- Presented a paper at Machine Learning Developers Summit, 2023
- Won Best Capstone Project for "Generating Embeddings for Deep Learning based Recommender Systems"
- President of the Data Science Club, VIT Chennai.
- 20th Rank in Amazon ML Challenge.
- 72nd Rank in Segmind AI Challenge.
- 362nd Rank in Wipro's Sustainability Challenge.
- Pandatorch has been downloaded 6,096 times as of 17th October, 2022