DATA SCIENCE, MACHINE LEARNING, SOFTWARE DEVELOPMENT

ANMOL JAWALI MALLIKARJUNA

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Master's degree graduate specialized in the computer science and mathematics field of Data Science, Machine Learning and Deep Learning. Data Scientist Nanodegree Graduate from Udacity and Certified in SQL for Data Science, Tableau, Neural Networks and Deep Learning. Skilled in Python, NumPy, Pandas, R, SQL, Tableau, Optimization Algorithms, Statistics, Development and Deployment of end-to-end Machine Learning Models, and Problem Solving.

EDUCATION

M.S. | Computer Engineering
University of Massachusetts, Amherst
May 2020

B.E. | Electronics & Communication
Visvesvaraya Technological Uni., India
May 2017

SKILLS

Programming Languages:
Python, R, C/C++, SQL, JavaScript.

Data Science Knowledge:
- Exploratory Data Analysis.
- Machine Learning.
- Software Engineering.
- Advanced Analytics.
- Computer Vision.
- Natural Language Processing.
- Statistics and Probability.
- Data Visualization.
- Feature Engineering.

Tools:
- Flask, REST API'S, NLTK.
- NumPy, Pandas, SciPy, Matplotlib.
- Scikit-Learn, PyTorch, TensorFlow.
- OpenCV, CUDA.
- AWS - SageMaker, Lambda, API Gateway.
- Git & Git Version Control.

Management:
Communication, **Collaboration**, Leadership

CERTIFICATIONS

Data Scientist Nanodegree
Udacity, May 2020

Neural Networks and Deep learning
Coursera, July 2019

Fundamentals of Visualizations with Tableau
Coursera, April 2020

EXPERIENCE

Machine Learning Engineer | Internship
Chefeur | Seattle, WA
Nov 2020 - Present
- Engineer development to design algorithms that use data and behavioral science to automate the grocery ordering process.
- Develop python and REST-API based micro-service, deploy the end-to-end ML model on AWS with auto re-training, aim to provide accurate recommendations and predictions based on customer preferences and enhance personalization.

Data Scientist | Internship
Ingaige | Amherst, MA
Aug 2020 - Nov 2020
- Develop engagement solutions in the healthcare and wellness business industry. Built a model to provide recommendations to healthcare workers with issues regarding mental health.
- Designed a data collection schema, to capture real world data and outline the structure for data storage in SQL Database, which can be used to analyze market trends and improve the predictions with model re-training for a personalized user experience.

DATA SCIENCE PROJECTS

Road Lane Detection using Deep Convolutional Neural Networks (CNN, RNN, Convolutional LSTM)
- Lane detection using multiple frames of a continuous driving scene is implemented with a hybrid deep architecture combining CNN and Recurrent Neural Network (RNN) in PyTorch.
- The idea is to extract features of continuous images using the CNNs and these features of multiple frames, holding the properties of time-series, are then fed into RNN block for feature learning and lane prediction. To increase the accuracy of the obtained model, classic image smoothing techniques are implemented.

Disaster Response Pipeline (NLP Pipeline, GridSearchCV, SVM)
- Designed Natural Language Processing and Machine learning pipelines to extract, process and build the prediction model and, implemented a ML pipeline with parameter optimization technique to classify text data.
- Deployed the model to a website where users can test the developed algorithm and see multiple visualizations of analyzed data.

Recommendation System (Matrix Factorization, SVD, Collaborative Filtering)
- IBM-Watson dataset was used to implement rank-based recommendation, a user-user based collaborative filtering. Also, implemented a machine learning model to predict new articles an individual might interact with, using matrix factorization and SVD.