PRASHANT JADIYA

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EDUCATION

Stevens Institute of Technology, NJ, USA — Exp. Dec. 2022
Master of Science in Applied Artificial Intelligence; CGPA: 3.918/4.0
Relevant Coursework: Applied Machine Learning, Applied Modelling and Optimization, Deep Learning

Marwadi Education Foundation's Group of Institutions, Gujarat, India — Aug 2020
Bachelor of Engineering in Information Technology; CGPA: 3.66/4.0

TECHNICAL SKILLS AND COURSES

Languages: Python, Java, C, SQL
ML Toolkit: Keras, Pandas, PyTorch, Matplotlib, Seaborn, Flask, Tableau, MATLAB, Medcalc, Tensorflow
Certificates: Udacity Data Scientist Nanodegree, Stanford's Machine Learning and Google IT Support Professional Specialisation Certificate

WORK EXPERIENCE

Teaching Assistant, Stevens Institute of Technology, USA — Jan 2022 - Present

- Coordinating with faculty instructor in developing course content and homework assignments of Engineering Python (Graduate level) course
- Tracking student performance daily and providing one-on-one assistance to students who have questions on homework assignments or course contents

Machine Learning Intern, LeadingIndia.ai, Noida, India — June -July 2019

- Conducted research in deep learning algorithms such as V-Net, U-Net and leveraged them on team project entitled Kidney Tumor Segmentation (KiTS'19)
- Led a team and achieved 78% accuracy with huge dataset of 300GB which placed at 2nd in leaderboard
- Published findings in Computers in Biology and Medicine which can be accessed here

ACADEMIC PROJECTS

Adversarial Attacks on Neural Networks (Advisor: Dr. Shucheng Yu) — Jan 2022 – Present

- Graduate thesis topic focused on a decision-based attack on neural network to cause neural network to make wrong predictions
- This is being done by merging original input image with some perturbation which human can't identify easily and main aim is to improve the published RayS attack and extend it for targeted attack

Heart disease detection using Bio-markers — Dec 2021

- Implemented traditional methodology, CV, SMOTE, and feature selection with Particle Swarm Optimization followed by EDA**;** which introduced an increase of 12% accuracy compared to traditional methodology
- Illustrated Incremental Effect of Features and Inter-variability analysis for real-world datasets which has two doctor's results for same patient

Recommendation Engine for IBM Watson Studio Dashboard — July 2020

- Optimized rank-based and collaborative filtering methods to find personalized recommendations to recommend blogs to users of IBM Watson Dashboard
- Implemented Matrix factorisation, SVD, FunkSVD to achieve 65% accuracy confirmed using A/B testing

Offer Optimisation with Machine Learning — May 2020

- Illustrated using Starbucks' offer dataset**;** Processed the dataset from json file to perform Exploratory Data Analysis and Visualisation
- Applied six machine learning models (including boosting algorithms) using automated pipeline like GridSearchCV for hyperparameter tuning to predict customers' response to the offer 87% accurately

ACTIVITIES

- Working (Contributing) at AISecLab (Stevens Institute of Technology)
- Contributing blogger at Medium.com under "Data Driven Investor" publication
- Awarded with Devang Mehta IT Awards from Gujarat Technological University