Sajid Hussain

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Contributing Research

New Jersey Institute of Technology **Sep 2023 - Present**

Federal Open Market Committee

- Under the supervision of distinguished Dr. Guiling (Grace) Wang, I am utilizing Conditional GANs to unravel the intricate interplay of personal characteristics among FOMC members in diverse economic scenarios.
- This project signifies a unique opportunity to delve into the nuanced dynamics that shape pivotal decision-making in the realm of financial governance.

Driverless Car: Autonomous Driving Using Deep Reinforcement Learning **Mar 2023**

- Reviewed Driverless Car: Autonomous Driving Using Deep Reinforcement Learning.

Experience

Applied AI(Apprentice) **June 2022 - December 2022**

- **Quora question pair similarity problem:** Identified duplicate questions asked on Quora and mapped business problem to machine learning problem and performed advanced feature extraction with a Precision and Recall of 90%
- **Personalized Cancer Diagnosis**: Innovative approach using a random model with a log-loss of 1.15 with Logistic regression.
- **Amazon Fine Food Reviews**: Vectorized text data and experimented with Bag of words, Bi-grams and n-grams, TF-IDF, Word2vec.

Machine Learning Intern **April 2022 – June 2022**

iNeuron Pvt. Ltd

- Built a model that predicts the person's premium for health insurance, thus saving costs.
- Selected Gradient Boosting with an RMSE score of 0.388 and R-squared score of 0.818 vs Random Forest with an RMSE score of 0.396 and an R-squared score of 0.810.

Portfolio Projects

Kaggle Competition **April-May 2023**

- Predicted score of 70.34 in the AMP®-Parkinson's Disease Progression Prediction hosted by Kaggle, using protein and peptide data measurements of patients.

Text Summarization **February 2022**

- Extracted key information from lengthy texts using the nltk library.

Recommendation system **December 2022**

- Performed Exploratory data analysis on **100 million** ratings from 480,000 randomly chosen, anonymous Netflix customers over 17000 movie titles.

Credit Card customer Attrition rate **November 2022**

- Experimented with ensemble models, Logistic regression, Decision tree, Random Forest, and Light GBM to forecast and reduce customer attrition by analyzing more than 10,000 data points and 21 features.
- Achieved an F1-score of 0.97 as compared to other algorithms.

Education

New Jersey Institute of Technology **Sep. 2022 – May 2024**

MS Data Science(GPA: 3.75) *NLP, Deep Learning, Machine learning, Applied Statistics, Data Mining*

Visvesvaraya Technological University

BE Computer Science

Skills Summary

Languages	SQL, Python, and R.
Frameworks	PyTorch, Numpy, Pandas, Seaborn, MatplotLib.
Tools	AWS, Sagemaker, MS Office.