

# SAJID HUSSAIN

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📄 [Portfolio website](#)

## Contributing Research

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### New Jersey Institute of Technology

Sep 2023 - Present

*Federal Open Market Committee*

- Under the expert 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

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### 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

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### 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

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### 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

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Languages SQL, Python, and R.

Frameworks PyTorch, Numpy, Pandas, Seaborn, Matplotlib.

Tools AWS, Sagemaker, MS Office.