

SAJID HUSSAIN

📞 (551)334-8760

✉️ sh739@njit.edu

🌐 www.linkedin.com/in/sajidcodes

🐙 sajidcodes.github.io

Contributing Research

New Jersey Institute of Technology

Sep 2023

Debiasing Pre-trained Language Models

- Selected for a research project under the supervision of a distinguished professor Dr. Guiling (Grace) Wang for debiasing Pre-trained language models.

Driverless Car: Autonomous Driving Using Deep Reinforcement Learning

Mar 2023

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

Experience

Applied AI

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.

Freelance 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.
- Started building a recommendation system for a fast-growing startup with more than 200,000-page visits.

Recommendation system

December 2022

- Performed Exploratory data analysis on **100 million** ratings from 480,000 randomly chosen, anonymous Netflix customers over 17000 movie titles.
- Started building a recommendation system for a fast-growing startup with more than 200,000-page visits.

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

Machine learning, Applied Statistics, Data Mining

Visvesvaraya Technological University

BE Computer Science

Skills Summary

Languages SQL, Python, and R.

Frameworks Natural language processing (NLP), Numpy, Pandas, Seaborn, Matplotlib.

Tools AWS, Sagemaker, Hadoop, MS Office.