Sajid Hussain

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Education

New Jersey Institute of Technology   **Sep. 2022 – May 2024**
MS Data Science(AI/ML specialization) (GPA:3.8)   NLP, Deep Learning, Machine learning, Applied Statistics, Data Mining

Visvesvaraya Technological University
BE Computer Science

Certified

Generative AI: Working with Large Language Models

Introduction to Large Language Models (**Google Cloud**)

Generative AI Fundamentals (**Google Cloud**)

AWS Certified Cloud Practioner(P)

Deep Learning Specializations

Natural Language Processing Specialization

Skills

Experienced in SQL, Python, R, GenAI, NLP, LLMs, AWS Sagemaker, Cloud Computing ,Data analysis, statistical modeling, Machine Learning, PyTorch, Statistics, Deep learning, NumPy, and Pandas.

Portfolio Projects *Website*

1. Deploying Llama2 (Large language model) on AWS Sagemaker using DLC   **January 2024**
- Configured and optimized AWS Sagemaker environment to ensure efficient utilization of resources and optimal performance of Llama2 model.

2. Diagnosing and Mitigating Bias in Large Language Models *[BLOG]*   **December 2023**
- Addressed growing concerns regarding bias in AI models, ensuring ethical and fair deployment in real-world applications.
- Evaluated biases in large language models (LLMs) such as BERT, GPT-2, etc addressing gender, race, and cultural biases.

3. Transformer-Based Speaker Classification *[Demo]*   **November 2023**
- Applied Self-Attention mechanisms and optimized transformer parameters, on a speech dataset featuring 600 speakers.
- Introduced a novel conformer architecture, resulting in 20% reduction in training time with a commendable categorization accuracy score of 96.85%, demonstrating expertise in advanced machine learning techniques.

4. Recommendation System *[Demo]*   **June 2023**
- Demonstrated strong analytical skills by conducting exploratory data analysis on 100 million ratings from 480,000 Netflix customers, extracting actionable insights for decision-making.
- Understood business requirements and translated them into technical solutions.

5. Quora question pair similarity problem *[Demo]*   **April 2023**
- 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%

6. HR Dashboard *[Tableau Dashboard]*   **February 2023**
- Visualized an HR Dashboard using Tableau which effectively communicated 14.57% attrition rate.

Experience

Graduate Teaching Assistant(Machine Learning)   **Sep 2023 – present**
NJIT
- ∗ Conducted regular code reviews resulting in a 20% increase in overall student comprehension and achievement.
- ∗ Delivered personalized technical assistance and simplified complex concepts involving 100 students.
- ∗ Consistently received positive feedback from students for saving 10 hours/week.

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.