

SAJID HUSSAIN

Newark, NJ, 07029 📞 (551)334-8760 ✉️ sh739@njit.edu [linkedin.com/sajidcodes](https://www.linkedin.com/sajidcodes) [Github](https://github.com)

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

AWS Certified Cloud Practioner(P)

Introduction to Large Language Models
(Google Cloud)

Deep Learning Specializations

Natural Language Processing
Specialization

Generative AI Fundamentals (GCP)

SKILLS

Proficient in SQL, Python/R for data analysis, statistical modeling, and neural networks, experienced in AWS Sagemaker, PyTorch, TensorFlow, Keras, Azure, NLP, Artificial Intelligence, Algorithms, cuda, NumPy, Pandas.

EXPERIENCE

NeuroTechR3

Feb 2024 – present

LLM Engineer

Newark

- Transcribed audio data using AWS Transcribe and used LLM to generate summaries and stored it back to S3.
- Using AWS Lambda and EC2 to analyze data and generate personalized exercise recommendations based on patient capabilities, goals, and progress and communicated via Slack.

NJIT

Sep 2023 – present

Graduate Teaching Assistant(Machine Learning)

- Conducted regular code review resulting in a 37% increase in overall student comprehension and achievement.
- Delivered personalized technical assistance and simplified complex concepts involving 80 students, highlighting effective communication skills.

iNeuron Pvt. Ltd

April 2022 – June 2022

Machine Learning Intern

- **Data Acquisition and Exploration:** Explored relevant datasets, understanding data characteristics and potential quality issues.
- **Data Cleaning and Preprocessing:** Cleaned and preprocessed data to address inconsistencies, missing values, and outliers, ensuring data quality for modeling.
- **Feature Engineering:** Engineered new features from raw data to improve model performance and generalizability.
- **Model selection and Training:**Applied expertise in computer engineering and statistics to build machine learning models in a product environment.
- **Model Evaluation and tuning:** Compared model performance using relevant metrics (e.g., RMSE score of 0.388 and R-squared score of 0.818) and employed techniques like hyperparameter tuning to optimize model performance.

PORTFOLIO PROJECTS [WEBSITE](#)

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.

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.

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 a 20% reduction in training time with a commendable categorization accuracy score of 96.85%, demonstrating expertise in advanced machine learning techniques.

Personalized Recommendation System [/Demo/](#)

June 2023

- Utilized SQL queries and database design principles to transform data for analysis
- Demonstrated strong analytical skills by conducting exploratory data analysis on 100 million ratings from 480,000 Netflix customers, extracting actionable insights using a data driven approach.