

Saddam Hussain

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Professional Summary

Assistant Professor and postgraduate researcher specializing in **Artificial Intelligence and Machine Learning**, with experience in teaching, research, and applied ML projects. Research interests include **deep learning for NLP, sentiment analysis, and feature selection**. Hands-on expertise in Python-based machine learning, neural networks, and data-driven problem solving.

Experience

Assistant Professor

August 2024 – Present

Galgotias University, Greater Noida, Uttar Pradesh

- Teaching undergraduate and postgraduate courses in Computer Science and Artificial Intelligence.
- Delivering lectures, preparing course materials, and conducting laboratory sessions.
- Mentoring students in machine learning-based projects and research activities.

Teaching Assistant

2022 – 2024

National Institute of Technology, Hamirpur

- Assisted faculty in conducting laboratory sessions and tutorials.
- Supported student evaluations, assignments, and academic mentoring.

Education

M.Tech – Computer Science & Engineering (Artificial Intelligence)

2022 – 2024

National Institute of Technology, Hamirpur

CGPA: 7.94

B.Tech – Computer Science & Information Technology

2016 – 2020

MJP Rohilkhand University, Bareilly

Percentage: 65.3%

Senior Secondary (UP Board – Class XII)

2016

BSBSDBRA Inter College, Ghazipur

Percentage: 79.60%

Secondary (ICSE – Class X)

2013

St. Mary's School, Zamania, Ghazipur

Percentage: 80.60%

Personal Projects

I. Boston House Price Prediction

Multiple Linear Regression

- Developed a machine learning model to predict house prices based on multiple housing features.

- Applied linear regression techniques and evaluated model performance.
- **Tools:** Python, Scikit-learn, Pandas, NumPy

II. Movie Recommendation System

Content-Based Recommender

- Built a recommender system suggesting similar movies using genre, cast, and crew metadata.
- Implemented NLP techniques for feature extraction and similarity computation.
- **Tools:** Python, NLP, Pandas

III. MNIST Handwritten Digit Recognizer

Image Feature Engineering and Classification

- Implemented digit recognition using image preprocessing and neural networks.
- Performed feature engineering using HOG, wavelet decomposition and dimensionality reduction.
- Explored manifold learning techniques to uncover hidden patterns in image data.
- **Tools:** Python, Keras, Visual Studio Code

Research & Publications

1. **TextCNN-BiGRU with Trainable Random Embeddings for IMDB Movie Review Sentiment Classification.**
Accepted for presentation in an international conference published by **Springer**.
2. **Next Word Component-wise Prediction using Feature Selector.**
Research work focusing on feature selection techniques for improving next-word prediction models.
Communicated

Technical Skills

Programming & Libraries

- Python, NumPy, Pandas
- Scikit-learn, Keras
- Machine Learning fundamentals

Development Tools

- Visual Studio Code
- Jupyter Notebook
- Anaconda

Databases

- MySQL

Achievements

- Qualified **GATE 2022** in Computer Science and Engineering