

AMISHA GANGWAR

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EDUCATION

Syracuse University, School of Information Studies, Syracuse, NY Aug 2022 – May 2024

M.S. Applied Data Science: GPA – 4.00/4.00

Relevant Coursework: Database Administration Concepts and Database Management | Introduction to Data Science | Natural Language Processing | Applied Machine Learning | Quantitative Reasoning | Business Analytics

University of Allahabad, Department of Electronics and Communications, Allahabad, India

Aug 2018 – May 2022

B.Tech. Computer Science & Engineering; GPA – 9.33/10.00

Relevant Coursework: Database Systems | Data Structures | Design and Analysis of Algorithms | Big Data Analysis | Image Processing | Advance Concepts of Programming Language

WORK EXPERIENCE

Faculty Assistant, Syracuse University, Syracuse, NY

Dec 2022 – Present

- Created a Python script leveraging the Transformers library to conduct a comprehensive benchmark of 10+ Hugging face Generative Pre-trained Transformer (GPT) language models
- Designed script to evaluate each model's performance in generating text responses for a variety of prompts while recording critical performance metrics, including memory usage and time taken

Undergraduate Researcher, University of Allahabad, Allahabad, India

Oct 2020 – May 2022

- Forecasted PM_{2.5} (an air pollutant) of Delhi region utilizing stacked algorithms in Python and improved the results by 5%
- Analyzed sentiments of 37,530 Israel English tweets using Natural Language Processing (NLP) and Machine Learning (ML) algorithms

Summer Researcher, Defense Research and Development Organization (DRDO), Chandigarh, India

Jul 2021 – Sep 2021

- Engineered riot and fire detecting system for Terminal Ballistic Research Lab using Convolutional Neural Network (CNN) with accuracy of 94% (fire) and 87% (riot)
- Formed Graphical User Interfaces (GUIs) using python Tkinter library and MATLAB for emerging armament applications including Exploding Bridge Wire and Explosive Welding

PROJECTS

Interactive Tableau Dashboard: US Universities Data

Feb 2023 – Mar 2023

- Built interactive Tableau dashboards based on exploratory data from 1600+ US universities, mapping the universities based on location, and generating custom maps based on filters
- Developed dual heat-maps to differentiate the Yield and Selectivity of 37 private institutions classified by the Carnegie classification system

International Student Expenses Management System

Nov 2022 – Dec 2022

- Collaborated with a team of 3 to identify external data model/logic for 15+ databases and adapted with SQL Up/Down script using Azure Data studio
- Constructed a PowerApps application to collect data of 450 - 500 international students and displayed popular choices of students in university area

IMBD Movie Reviews Classification Using Neural Network

Nov 2022 – Dec 2022

- Devised a classifying pipeline to predict sentiments of movie deploying NLTK for processing 50,000 reviews
- Reinforced a Neural Network model by applying TensorFlow library, resulted in an accuracy of 86%

PUBLICATIONS/ TECHNICAL SKILLS

Publications: *Sign Language Recognition System using TensorFlow Object Detection API* (Springer),

Sentiment Analysis and Sarcasm Detection of Indian General Election Tweets (Springer)

Programming Languages: Python, R, SQL, HTML, CSS, C/C++, MATLAB

Tools: Azure Data Studio, Docker, MS Excel, MS Access, RStudio, Shiny App, Tableau, Google Analytics

Libraries: NLTK, TensorFlow, Keras, SciPy, Matplotlib, Scikit-learn, pandas, NumPy, Pytorch, Seaborn

LEADERSHIP EXPERIENCE

Machine Learning Mentor, Internity Foundation

May 2021 – Jun 2021

- Guided group of 10 trainees with coursework and doubts during weekend hours
- Taught sentiment analysis paradigm using Large Movie Review Data (Stanford Dataset) via online mode through PowerPoint