AMISHA GANGWAR

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EDUCATION

Syracuse University, School of Information Studies, Syracuse, NY   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   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

Food Services Employee, Syracuse University, Syracuse, NY   Aug 2022 – Present
- Coordinate with co-workers to ensure seamless services and assist the customers with services amid high-volume work
- Observe practices for safe food preparation, assembly and presentation and manage the cashier register to process the customer transactions

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 the sentiments of 37,530 Israel English tweets using Natural Language Processing (NLP) and Machine Learning algorithms
- Improved the sentiment analysis of the Indian election by 8-10% by adding sarcasm detection using the Transfer Learning approach
- Designed the Sign Language Recognition System using TensorFlow and Transfer Learning with an average confidence rate of 85.45% for all alphabet letters

Summer Researcher, Defense Research and Development Organization (DRDO), Chandigarh, India   Jul 2021 – Sep 2021
- Engineered the riot and fire detecting system for Terminal Ballistic Research Lab using Convolutional Neural Network (CNN) with the 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

International Student Expenses Management System   Dec 2022
- Collaborated with a team of 3 to identify external data model/logic for 15+ databases and adapted it with SQL Up/Down script using Azure Data studio
- Developed 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   Dec 2022
- Developed a classifying pipeline to predict sentiments of movie using NLTK for preprocessing 50,000 reviews
- Reinforced a Neural Network model using TensorFlow library which resulted in an accuracy of 86%

PUBLICATIONS/ TECHNICAL SKILLS

Publications: *Sentiment Analysis of Political Tweets for Israel using Machine Learning* (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, Draw.io, Docker, MS Excel, MS PowerPoint, Latex, PowerApps, RStudio, Shiny App, Jupyter
Libraries: NLTK, TensorFlow, Keras, SciPy, Matplotlib, Scikit-learn, pandas, NumPy, Pytorch, Seaborn

LEADERSHIP EXPERIENCE

Machine Learning Mentor, Internity Foundation   Summer 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.