TANUSHRI VIJAYAKUMAR

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Master's student in Computer Science at New Jersey Institute of Technology with a strong passion for data science and a commitment to leveraging analytical skills to drive insights and innovations.

EDUCATION

NEW JERSEY INSTITUTE OF TECHNOLOGY September 2024 - Present
New Jersey, USA
Masters of Science in Computer Science

- *GPA: 3.0*

ANNA UNIVERSITY - THIAGARAJAR COLLEGE OF ENGINEERING
Madurai, IND
Bachelor of Science in Computer Science and Engineering July 2024

- *CGPA :* 9.1/10.0
- *Organizations:* CSA(Computer Science Association) , Youth Red Cross (YRC)

SKILLS

Languages: Python, C, Java
Frontend Language : HTML, CSS, JavaScript
Backend Language : Python, Java, SQL
Miscellaneous: Flask, PowerBI, Tableau, Keras, TensorFlow
Soft Skills: Problem-solving, attention to detail, leadership

INDUSTRIAL TRAINING

In-Lab Internship Dec' 2021- Jan' 2022
Area of Exposure: Networks and Security, Artificial Intelligence, Systems , and Database Management Systems.

In-Lab Project Internship Oct' 2023
Project: Graph Analytics in Healthcare
Demonstrated the use of Graph Analytics using NetworkX, and GraphX tool on the COVID-19 dataset

PROJECT WORK

ABDOMINAL TRAUMA DETECTION USING YOLOv8
Developed and implemented a state-of-the-art abdominal trauma detection system using YOLOv8 deep learning model, enhancing diagnostic accuracy in medical imaging. Successfully configured and trained the model, addressing critical aspects such as data augmentation, class definition, and architecture customization.
Technologies used: *Python, TensorFlow, Keras, YOLOv8*

AIRLINE RESERVATION SYSTEM
Computerized the operations of the airline database and reservation which is used for booking and managing all the information about the airlines, flights, passengers, and reservations.
Technologies used*: SQL*
API used: *Java Database Connectivity(JDBC)*

CHRONIC DISEASE PREDICTION USING LARGE LANGUAGE MODELS AND KNOWLEDGE GRAPH EXPLORATION TECHNIQUES
A research project to enhance chronic disease predictions and management by integrating large language models(LLMs) with knowledge graphs. Using a comprehensive database of disease- symptom associations and Neo4j algorithms, we improved disease prognosis and accuracy and developed a user friendly disease forecasting system with high performance metrics. .
Technologies used*: LLM, Python*
API used: *Gemini LLM, Neo4j*

ADDITIONAL

- Attended a two day workshop on 'Machine Learning' at Indian Institute of Science(IISC), Bangalore
- Actively participated in various coding contests and hackathons.
- Member of Computer Science Association and have attended various events of the tech club