**Semantically Enriched Expertise Discovery System for Computer Science Specializations**

This project aims to develop an ontology-based system for expert discovery in the field of computer science. The system utilizes an ontology to semantically represent academic information, including research publications, and employs etc. This ontology will help find expert in the field of computer science. Rules will be generated using Semantic web rule language (SWRL) in order to infer individual's expertise in the field of computer science. Further, for search an expert in particular field, I will use query in semantic with the help of SPARQL.

For data collection, I will use academic databases like IEEE Xplore and Google scholar. So based on database’s information of individual I will generate rules and extract expert of particular field in computer science. Initially, I will choose certain areas from computer science domain, like Artificial Intelligence, Data Science, Cybersecurity, machine learning and semantic web.

The key components of the system will include ontology construction, ontology reasoning, and ontology querying.

**Keywords of each fields:**

**Artificial Intelligence**

Natural Language Processing

Neural Networks

Reinforcement Learning

Expert Systems

**Data Science**

Big Data Analytics

Data Visualization

Statistical Analysis

**Cybersecurity**

Intrusion Detection

Network Security

Cryptography