UNIVERSITY OF SARGODHA,

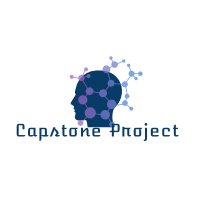
MAIN CAMPUS

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY



**PROJECT PROPOSAL**

# **Mental Disorder Ontology**



BACHELOR OF SCIENCE – SOFTWARE ENGINEERING

2019-23

# **Mental Disorder Ontology**

# Abstract:

Around 1-in-7 people globally (11-18 percent) have one or more mental or substance use disorders. Mental Disorders are becoming common day by day due to a lot of environmental factors. Now a day’s field of psychology is thriving and doctors are identifying more and more patient will mental disorders. That’s why there is need for machine to understand mental disorder and their symptoms. In the field of psychology mental disorders are one of the most significant topic. Previously ontology of basic classification of mental disorders was designed by National Library of Medicine and other then that very little work is done related to providing relevant details of different mental disorder. I am going to contribute in designing an ontology which will have

* Name
* International Code
* Symptoms
* Types
* Risk factors
* Level of intensity
* Correlation

Related to mental disorders. This ontology will help machine in understanding a lot of information related to mental disorders for an effective diagnosis.

# References:

* **Bipolar Disorder Ontology**

<https://raw.githubusercontent.com/SCAI-BIO/bipolar-disorder-ontology/main/releases/2022-06-17/BPDO.owl>

* **Schizophrenia Ontology**

<http://www.di.unito.it/~lieto/Schizophrenia_Spectrum.owl>

* **Mental Function Ontology**

<https://www.ebi.ac.uk/ols/ontologies/mfomd>

* **Mental Disorder Ontology Classification**

<https://meshb-prev.nlm.nih.gov/treeView>

* **Diagnostic and Statistical Manual of Mental Disorders**

<https://doi.org/10.1176/appi.books.9780890425596>

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