



Research Article

Sugeno Fuzzy Personality Prediction System: An Approach to Overcoming Psychological Measurement Uncertainty

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Abstract:

Personality prediction is a significant field in psychological measurement, yet it faces challenges due to psychological data's ambiguous and uncertain nature. This study aims to develop a Sugeno-based fuzzy logic system for predicting personality types according to the Myers-Briggs Type Indicator (MBTI). The dataset includes synthetic personality data, incorporating age, introversion, sensing, thinking, and judging. The fuzzification process converts crisp input values into fuzzy variables, which are then processed using predefined fuzzy rules to generate personality predictions. The defuzzification step yields crisp outputs corresponding to MBTI types, demonstrating the system's ability to handle uncertainty and ambiguity effectively. Implementation and evaluation were conducted using Python and LabVIEW, revealing a satisfactory performance with a low error rate of 0.445. This study highlights the potential of fuzzy logic, particularly the Sugeno method, in enhancing accuracy and adaptability in personality prediction, contributing to applications in education, human resource management, and personalized digital services.

Keywords: Fuzzy Logic Sugeno, Uncertainty, MBTI, Psychological Measurements, Personality Prediction

Dataset link: <https://www.kaggle.com/datasets/stealthtechnologies/predict-people-personality-types>

1. Introduction

Personality prediction is a growing field of research, along with advances in information technology and machine learning. One of the most commonly used approaches in personality analysis is the Big Five personality model or Myers-Briggs Type Indicator (MBTI), which classifies individual personalities based on five main dimensions: extroversion, agreeableness, conscientiousness, openness to experience, and neuroticism [1]. These dimensions describe how individuals respond to situations and their preferences in making decisions and interacting with the environment [2]. MBTI has been widely applied in human resource management, education, and clinical psychology, demonstrating its success in understanding individuals' psychological preferences [3].

However, traditional methods such as interviews and questionnaires have limitations in capturing the complexity of a person's personality, mainly due to the nature of the data, which is often ambiguous and complex to measure objectively [4]. This uncertainty in measurement is due to differences in individual perceptions, variations in question interpretation, and the influence of external factors on responses [5], [6]. In recent years, technology-based approaches such as machine learning and natural language processing (NLP) have been used to overcome these challenges, enabling more in-depth and accurate data analysis [7], [8]. For example, digital data from social media provides a rich source of information for identifying personality patterns using machine learning algorithms [9], [10].

Machine learning-based approaches have shown great potential in improving the accuracy of personality prediction. Previous research successfully developed MBTI-based personality prediction models using text analysis from social media, resulting in higher accuracy rates than traditional methods [11], [12]. However, measuring

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Psychological Measurement and Prediction Paul Horst, 1964 **Principles of Psychological Measurement** G. C. Helmstadter, 1964 The Chronic Crisis in Psychological Measurement and Assessment Scott T. Meier, 2013-10-22 The Chronic Crisis in Psychological Measurement and Assessment: A Historical Survey provides a historical survey of relevant concepts in psychological measurement and assessment. It does not delve into intimate details and complexities but traces measurement and assessment controversies over time and across psychological domains. The main goal has been to approach the problems of measurement and assessment from the perspective of psychological theory. The book begins with an overview, a broad picture of how psychological measurement and assessment have evolved. Separate chapters present descriptions and interpretations of measurement issues that have been important over the lifespan of psychological science. Traditional approaches along with newer concepts and procedures are discussed along with an attempt to integrate the major themes that emerge from the historical survey with the ultimate purpose of reviewing and proposing new directions. This book is offered as a complement to existing texts in psychological measurement and assessment.

Psychological Measurement and Prediction. Part I. Background for Psychological Measurement Paul Horst, WASHINGTON UNIV

SEATTLE.,1964 A report is presented on psychological measurement serving as an introduction to a more ambitious program for synthesizing and integrating the theory and methodology of psychological measurement and scaling It has been recognized for some years that psychological measurement or psychometrics is concerned primarily with the entity mode of a two mode data matrix while psychological scaling has been concerned with the attribute mode Obviously the two are inextricably interrelated as the more sophisticated developments in factor analysis have made abundantly explicit In spite of this interdependence an opaque or at best a translucent curtain continues to hang between psychometric and scaling activities It is hoped that this series of reports may be followed by full scale programs to integrate the two fields of investigation and that the recent ingenious and major developments of Professor Ledyard Tucker in multimode factor analysis may lead to a further integration of psychometric and scaling theory with learning theory and developmental psychology Obviously these latter involve the occasion mode of a three mode data matrix

Psychological Measurement and Prediction. Part V: Measurement and Prediction Fern Thomas,Helen Ranck,BURROUGHS WELLCOME AND CO U S A INC TUCKAHOE N Y.,1964

The research presented is one part of a series of reports on psychological measurement In this chapter the subject of test specificity is considered systematically and in great detail The statistical concepts involved and the procedures for estimating quantitatively the specificity of a test are also discussed

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It has been recognized for some years that psychological measurement or psychometrics is concerned primarily with the entity mode of a two mode data matrix while psychological scaling has been concerned with the attribute mode Obviously the two are inextricably interrelated as the more sophisticated developments in factor analysis have made abundantly explicit In spite of this interdependence an opaque or at best a translucent curtain continues to hang between psychometric and scaling activities It is hoped that this series of reports may be followed by full scale programs to integrate the two fields of investigation and that recent major developments in multimode factor analysis may lead to further integration of psychometric and scaling theory with learning theory and developmental psychology Obviously these latter involve the occasion mode of a three mode data matrix This report is concerned with the reliability and validity of measurement

Tests and Measurements Jum C. Nunnally,1959 *Principals of Modern Psychological Measurement* H.

Wainer,S. Messick,2012-11-12 Published in 1983 *Principals of Modern Psychological Measurement* is a valuable contribution to the field of Education

Interactive Assessment H. Carl Haywood,David Tzurriel,2013-11-11 The terms interactive and dynamic would never have been associated with psychological and psychoeducational assessment a generation ago They have currency now because of widespread dissatisfaction with the normative standardized testing model criticism of theoretical concepts of intelligence recognition of abuses of standardized intelligence testing and frustration with prediction and classification as primary goals of assessment It is almost certainly true that public policy concerns propel scientific

activity far more often than science propels public policy In the case of psychological assessment public policy concerns have arisen in the last 20 years primarily around issues of possible discrimination against members of ethnic minorities At the same time there has been a resurgence of dedication to excellence in education goals These concerns have led to such extreme measures as prohibition of the use of standardized intelligence tests to determine school placement decisions especially for minority children They have led also to a search for alternatives to standardized normative testing The chapters in this volume represent a variety of answers to this need

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Education and Mental Measurement Yogesh Kumar Singh, 2010 **Correlation**

and Regression Philip Bobko, 2001-04-10 the writing makes this book interesting to all levels of students Bobko tackles tough issues in an easy way but provides references for more complex and complete treatment of the subject there is a familiarity and love of the material that radiates through the words Malcolm James Ree ORGANIZATIONAL RESEARCH METHODS April 2002 This book provides one of the clearest treatments of correlations and regression of any statistics book I have seen Bobko has achieved his objective of making the topics of correlation and regression accessible to students For someone looking for a very clearly written treatment of applied correlation and regression this book would be an excellent choice Paul E Spector University of South Florida As a quantitative methods instructor I have reviewed and used many

statistical textbooks This textbook and approach is one of the very best when it comes to user friendliness approachability clarity and practical utility Steven G Rogelberg Bowling Green State University Building on the classical examples in the first edition this updated edition provides students with an accessible textbook on statistical theories in correlation and regression Taking an applied approach the author uses concrete examples to help the student thoroughly understand how statistical techniques work and how to creatively apply them based on specific circumstances they face in the real world The author uses a layered approach in each chapter first offering the student an intuitive understanding of the problems or examples and progressing through to the underlying statistics This layered approach and the applied examples provide students with the foundation and reasoning behind each technique so they will be able to use their own judgement to effectively choose from the alternative data analytic options Life-Span Research on the Prediction of Psychopathology L.

Erlenmeyer-Kimling, Nancy E. Miller, 2021-09-30 Originally published in 1986 the impetus for this volume developed from a conference organized by Barbara Snell Dohrenwend and the editors on behalf of the Society for Life History Research in Psychopathology the Society of the Study of Social Biology and the Center for Studies of Mental Health of Aging at the National Institute of Mental Health The theme of the conference was life span research on the prediction of psychopathology and the goal was to bring together outstanding researchers who were engaged in longitudinal investigations at the time and whose work collectively covered the entire life span from infancy to old age The papers that were presented at the conference were updated so that the chapters that follow represented current state of the art considerations in some of the best ongoing studies concerned with the prediction of psychopathology at that time *Technical Abstract Bulletin* ,

Handbook of Industrial, Work & Organizational Psychology Neil Anderson, 2001-12-20 This volume mainly focuses on theories techniques and methods used by industrial and work psychologists Internationally renowned authors summarize advances in core topics **Personnel Literature** , 1988 Handbook of Test Development Thomas M. Haladyna, Steven M. Downing, 2011-04-26 Despite the fact that test development is a growth industry that cuts across all levels of education and all the professions there has never been a comprehensive research oriented Handbook to which everyone developers and consumers can turn for guidance That is the mission of this book The Handbook of Test Development brings together well known scholars and test development practitioners to present chapters on all aspects of test development Each chapter contributor is not only a recognized expert with an academic and research background in their designated topic each one has also had hands on experience in various aspects of test development This thirty two chapter volume is organized into six sections foundations content item development test design test production and administration and post test activities The Handbook provides extensive treatment of such important but unrecognized topics as contracting for testing services item banking designing tests for small testing program and writing technical reports The Handbook is based on the Standards for Educational and Psychological Testing which serve as the foundation for sound test development practice These chapters

also suggest best test development practices and highlight methods to improve test validity evidence This book is appropriate for graduate courses and seminars that deal with test development and usage professional testing services and credentialing agencies state and local boards of education and academic libraries serving these groups *The Essentials of Mental Measurement* William Brown, Godfrey Hilton Thomson, 1925

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