

loan is considered as one of the highest risk and unsecured loans that is granted to any individual by the bank for various purposes that does not involve any collateral. For the purpose of reducing the risk factor that is entailed in such a deal, a knowledge-based personal bank loan analysis system is developed which is based on the four criteria of credit principles. The decision relies on a set of protocols that can be used by the bank to draw up a scoring point system for assessing application of this nature. To operate such a system, a series of questions relating to the applicant's income stability, repayment ability and job mobility will be asked and upon which a decision is made.

6. Concluding remark

Although the literature presents that researches are made in the field of Banking but for the risk management there is no perfect efficient expert system available. There is Expert system for Banking Sector but not for the loan appraisal for large scale industries. No fully implemented expert system is available which open source and due to the lot of procedures may cause delay in processing for term loans proposals.

7. References

- [1] Hamid Eslami Nosratabadi, Ahmad Nadali, and Sanaz Pourdarab, "Credit Assessment of Bank Customers by a Fuzzy Expert System Based on Rules Extracted from Association Rules", International Journal of Machine Learning and Computing, Vol. 2, No. 5, October 2012.
- [2] Mates D., Iancu E., Bostan I., Grosu V., "Expert System Models in the Companies' Financial and Accounting Domain", JOURNAL OF COMPUTING, VOLUME 2, ISSUE 1, JANUARY 2010, ISSN 2151-9617.
- [3] Rajendra M Sonar , "Business Intelligence through Hybrid Intelligent System Approach: Application to Retail Banking", "CONTRIBUTIONS- Volume I"- A collection of papers on banking, finance & technology. Banknet India Publications, 2006.
- [4] David Leinweber, "Knowledge Based system for Financial Applications", IEEE, 0885-9000/88 /0800-0018, 1998.
- [5] Ljubica Nedovic and Vladan Devedzic presented paper on "EXPERT SYSTEMS IN FINANCE – A CROSS-SECTION OF THE FIELD"
- [6] Daniel E. O'Leary, Paul R. Watkins " Prior Surveys on Expert Systems in Accounting, Auditing and Related Areas".
- [7] Alex Louwe Kooijmans and Anna Wang, "Smarter Bank Data Centers with Expert Integrated Systems", © Copyright IBM Corp. 2012.
- [8] R. V. Kulkarni, B. L. Desai Presented Paper on "Knowledge Based System in Banking Sector" ISBN-13: 978-8177080650 ISBN-10: 8177080652, 2004.
- [9] Ali Bazmara, Soheila Sardar Donighi, "Bank Customer Credit Scoring by Using Fuzzy Expert System", I.J. Intelligent Systems and Applications, 2014, 11, 29-35 Published Online October 2014 in MECS.
- [10] M. Mahmoud, N. Algadi, A. Ali, "Expert System for Bank Credit Decision", 10.1109 /ICCSIT.2008.31 Conference: Computer Science and Information Technology, 2008.
- [11] Wing S. Chow, "a knowledge-based support system for personal bank loan analysis".
- [12] www.researchgate.net
- [13] <http://en.wikipedia.org/wiki/Bank>
- [14] <http://www.expertsystem.com/>
- [15] <http://www.allbankingsolutions.com>