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Vellore Institute of Technology
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School of Computer Science and Engineering

CSE3054 - Data Mining: Concepts and Techniques

Fall Sem 2021-22

Project – J Component

- As per my earlier instructions in classes, for project component, the existing algorithms / measures can be reviewed and gaps can be identified. Solutions for the problems can be suggested.

- I have uploaded in Microsoft Teams few articles on data mining techniques, which can be used to narrow down your topic of interest.

  You can then search for more research article of your interest in http://egateway.vit.ac.in/
  You can use your VIT email id as username and mention you have forgot password then follow the instructions to login into the system.
  [many papers downloaded from google may not be of good quality to start your project]
  Go through the papers of your interest. Then choose a particular algorithm / technique / model proposed by an author. Go through future works mentioned by those authors and work on those.
- After discussing with me you can prepare an article based on your project. We can submit it to a journal / conference based on the novelty and your contribution.

1. **Review 1 [20 Marks]**

   Presentation has to be given as per the schedule you have chosen in the google form circulated for review – 1.
   Rubrics for assessment procedure is provided in Annexure I
   One to two page write up on with title, aim, abstract and references. At least 5 research articles has to be mentioned in the references.
   Student should submit the document in the google form circulated.

2. **Review 2 [20 Marks]**

   Presentation has to be given as per the schedule that you choose in the google form circulated for review – 2.
   Review 2 dates: 10-12th November 2021.
   Rubrics for assessment procedure is provided in Annexure I

Minimum of 7 page document with Abstract, introduction, literature survey, proposed model, empirical analysis and references. At least 20 research articles has to be mentioned in the references which should be cited in literature survey and proposed model by citing, how the proposed is better than existing methods.

Student should upload the document in the google form before your review.

3. **Review 3 [50 Marks]**

Presentation has to be given as per the schedule that you choose in the google form circulated for review – 3.
Review 3 dates: 25th November – 3rd December 2021.
Rubrics for assessment procedure is provided in Annexure I
Minimum of 10 page document with Abstract, introduction, literature review, proposed model, empirical study, experimental analysis and references. At least 20 research articles has to be mentioned in the references which is cited in article.

Student should upload the document in the google form before your review, which has to be uploaded in VTop.

Rubrics for evaluation

First Review (Weightage – 20%)

Indicator	**Weightage**	**Poor (0 – 25%)**	**Fair (26 – 50%)**	**Better (51 – 75%)**	**Excellent (76 – 100%)**
Ability to articulate the problem and identify objectives	20	Lacks clarity in defining the objective and problem statement	Problem statement is clear but objectives not in line with problem statement	Problem statement is clear and objectives are not completely defined	Problem statement is clear and objectives are well-defined

Second Review (Weightage – 30%)

Indicator	**Weightage**	**Poor (0 – 25%)**	**Fair (26 – 50%)**	**Better (51 – 75%)**	**Excellent (76 – 100%)**
Ability to demonstrate the right use of technology to achieve the identified objectives	5	Ability to use right technology is poor	Ability to demonstrate the right use of technology is fair	Ability to demonstrate the right use of technology is moderate	Ability to demonstrate the right use of technology is exemplary
Ability to identify and compare related technologies that can be used to realise the identified objectives	10	Not able to state any related technologies	Able to identify the	Able to identify the related technologies, but not able to compare them	Able to identify and compare the related technologies
Ability in self-evaluation and learn from mistakes	5	Not able to self-evaluate	Able to self-evaluate but not able to realise the mistakes	Able to self-evaluate and also to realise the mistakes	Able to self-evaluate, realise the mistakes and learn from mistakes through alternate solutions
Ability to use the basics of science to explain the engineering principles and the technology used	10	Ability to explain is very poor	Ability to explain is moderate	Ability to explain is good	Ability to explain is excellent

Third Review (Weightage – 50%)

Indicator	**Weightage**	**Poor (0 – 25%)**	**Fair (26 – 50%)**	**Good (51 – 75%)**	**Excellent (76 – 100%)**
Submission of draft project report and poster [1] Quality of draft project report [2] Quality of experiment [3] Abiding to the format [4] Submission within the due date	10	Satisfied any one of the indicated parameters	Satisfies two of the indicated parameters	Satisfies three of the indicated parameters	Satisfies all the four indicated parameters
Continuous engagement (evident through discussions) in learning and work ethics	5	Both continuous engagement and work ethics is not up to the satisfactory level	Displays moderate level of work ethics as well as engagement level in continuous learning	Displays good work ethics and medium level of engagement in continuous learning	Has good work ethics and takes every opportunity to result in effective learning
Quantum and quality of the project work	10	Lacking in both quantum as well as quality of the work	One of the parameter is satisfactory while other is not	Both quantum and quality of the work is satisfactory and the effort put in the learning is moderate	Quantum and quality of the work is exceptional. The effort put in the learning aspect is very evident
Effective communication [1] Fluency in oral communication [2] Preparation of presentation material [3] Body language	5	Not satisfactory in all the three parameters	Effective in atleast one of the three parameters	Effective in atleast two parameters	Effective in all the defined parameters
Technical aspects [1] ability to use the right methodology to describe the results [2] ability to discuss the results obtained and to defend the questions from the panel regarding technical aspects [3] ability to relate the findings to further developments / to solve social issues	20	Not satisfactory in all the three parameters	Effective in atleast one of the three parameters	Effective in atleast two parameters	Effective in all the defined parameters