University Performance Metrics

Team Members:

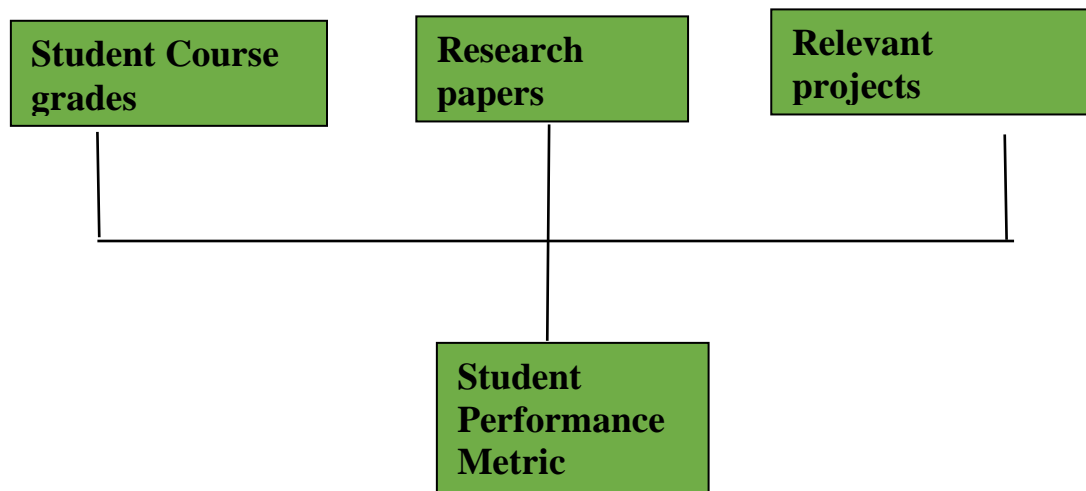| Swaroop Gupta B A	001545134
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Model Purpose:

Performance Measurement Solution that enables the Universities to track and measure the quality of the education they provide to their students. Quality means keeping courses fresh and aligned to industry trends and the approach here will depend upon an educational system involving faculty, courses, employers contribute to the professional growth of the student.

Business Problems addressed:

Performance measurement of a university involves calculating a score based on performance of students, professor, quality of the courses offered and professional growth of students after graduating.

Student Performance metric:

This metric assesses a student's academic progress in the university and is based on grades, research papers published, and projects completed.

Student Performance metric can be calculated as

Sum (GPA + No. of Research Papers + No. of relevant projects) * 100/ Total credits completed by student

GPA of a student is calculated using following mapping

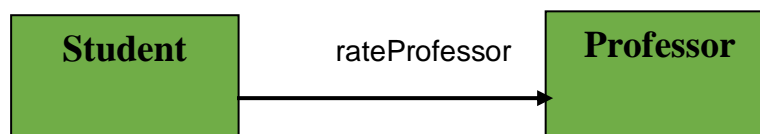| Grade	GPA(Points)
A	4.0
A-	3.7
B+	3.3
B	3.0
B-	2.7
C+	2.3
C-	2.0

Ex for a Student with Grade of A-. 2 research papers and 5 relevant projects and 32 credits completed, student performance metric will be

(3.7 + 2 + 5) * 100/ 32 = 33.43

Professor Performance metric:

This measure provides information about a professor's success at the university based on student ratings.

We use a custom sort to rank the professor based on the ratings provided by students and no. of students for each rating.
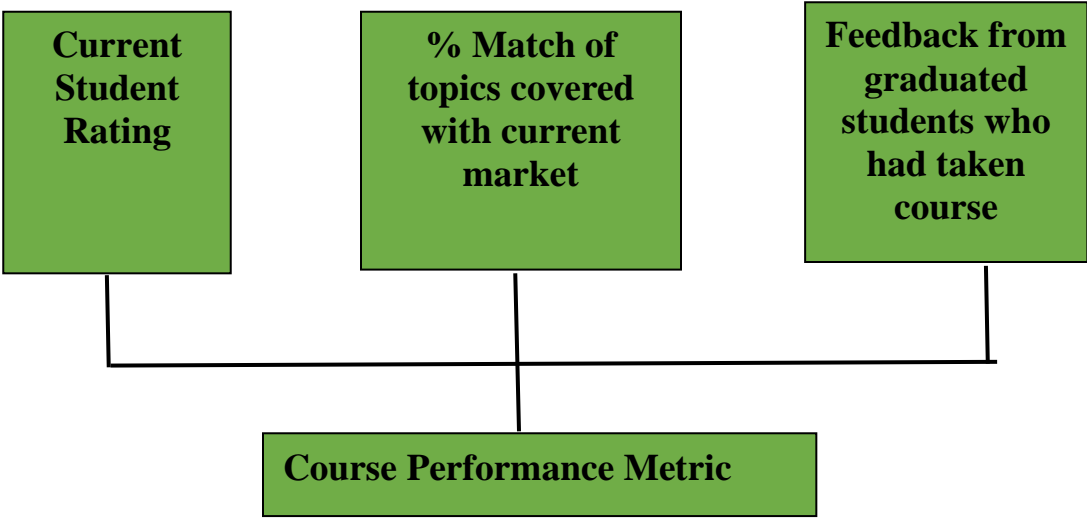

Course Performance Metric

This metric involves calculating a score based on student's rating and the course relevance score with current market trend.
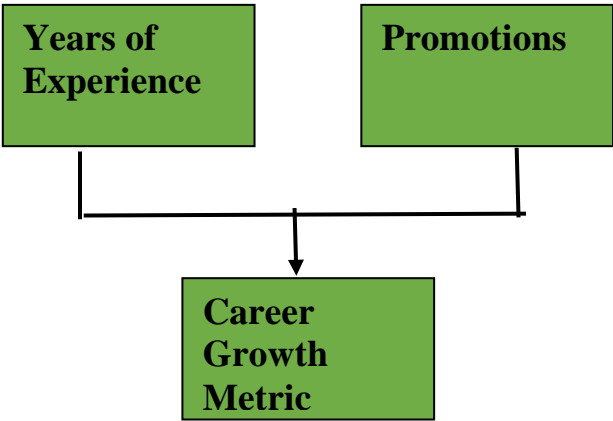
Course relevance can be calculated by matching topics/technology covered in a course and

the current market trend + student's feedback after graduating.

Current Student Rating	% Match of topics covered with current market	Feedback from graduated students who had taken course

Course Performance Metric

Professional Growth <u>Performance Metric</u>:

This metric assesses the importance of a student's professional experience in determining how well the university has aided student achievement at work.

Years of Experience	Promotions

Career Growth Metric

1. Years of Experience:

0-2 years	5 Points
3-5 years	10 Points
6-8 years	15 Points
Over 9 years	20 Points

2. Promotions:

0 promotions	0 Points
1 promotion	5 Points
2 promotions	10 Points
3 promotions	20 Points

On a scale of ten, the Professional Growth Metric can be determined by adding Years of Experience, Promotions, and then taking the average of the metrics.

Ex: For a student who has 2 yrs. of experience and have been promoted 2 times has a Professional Growth Metric of (5+10)/2 = 7.5