

PROJECT - PLAN & DETAIL

Beat Analytics : Spotify Data Analysis and Song Popularity Prediction

Data Preparation & Analysis (CSP-571)

1. Project Group

Project Group Members:

Student Name	A# Number
Kasargod Kailash Chandra Shenoy	A20526053
Aditya Nayak	A20528097
Akshat Behera	A20516439
Veerendra Gopichand Karuturi	A20529571

Project Group Leader:

Student Name	A# Number
Kasargod Kailash Chandra Shenoy	A20526053

2. Resources

Name	Initials
Kasargod Kailash Chandra Shenoy	KKCS
Aditya Nayak	AN
Akshat Behera	AB
Veerendra Gopichand Karuturi	VGK

3. Project Plan & Detail

WBS	Activity	Dependency	Beginning Date	Conclusion Date	Assigned Resources	Progress
1	DPA Project		11 th Feb	21 st Apr		Ongoing
1.1	Project Group & Topic (PGT)		11th Feb	18th Feb		Done
1.1.1	Literature Survey		11 th Feb	12 th Feb	KKCS, AN, AB, VGK	Done
1.1.2	Idea Generation & Finalization	1.1.1	12 th Feb	13 th Feb	KKCS, AN, AB, VGK	Done
1.1.3	PGT Document	1.1.2	13 th Feb	16 th Feb		Done
1.1.3.1	Initial Report	1.1.2	13 th Feb	14 th Feb	KKCS, AN, AB, VGK	Done
1.1.3.2	PGT Report Evaluation Session	1.1.3.1	15 th Feb	15 th Feb	KKCS, AN, AB, VGK	Done
1.1.3.3	PGT Report Revision	1.1.3.2	16 th Feb	17 th Feb	KKCS, AN, AB, VGK	Done
1.1.4	Submission on Blackboard	1.1.3.3	18 th Feb	18 th Feb	KKCS, AN, AB, VGK	Done
1.2	Data	1.1.4	16th Feb	1st Mar		Done
1.2.1	Data Gathering and Research	1.1.4	16 th Feb	19 th Feb		Done
1.2.1.1	Assembling all Relevant Datasets	1.1.4	16 th Feb	17 th Feb	AB	Done
1.2.1.2	Review Meetings of Dataset	1.2.1.1	17 th Feb	18 th Feb	KKCS, AN, AB, VGK	Done
1.2.1.3	Documentation of Datasets	1.2.1.2	18 th Feb	19 th Feb	AN	Done
1.2.2	Analysis of Datasets	1.2.1.3	20 th Feb	24 th Feb		Done
1.2.2.1	Style of Datasets	1.2.1.3	20 th Feb	21 st Feb	VGK	Done
1.2.2.2	Processing of Dataset	1.2.2.1	22 nd Feb	22 nd Feb	VGK	Done

1.2.2.3	Meeting Review	1.2.2.2	23 rd Feb	23 rd Feb	KKCS, AN, AB, VGK	Done
1.2.2.4	Dataset Documents	1.2.2.3	24 th Feb	24 th Feb	VGK	Done
1.2.3	Dataset Applications of the Project	1.2.2.4	25 th Feb	29 th Feb		Done
1.2.3.1	Response and Key Predictions	1.2.2.4	25 th Feb	26 th Feb	KCS	Done
1.2.3.2	Pipelines and Processing of Data	1.2.3.1	27 th Feb	27 th Feb	AN	Done
1.2.3.3	Review Meeting	1.2.3.2	28 th Feb	28 th Feb	KKCS, AN, AB, VGK	Done
1.2.3.4	Documentation of Dataset	1.2.3.3	29 th Feb	29 th Feb	KKCS	Done
1.2.4	Rework	1.2.3.4	1 st Mar	1 st Mar	AN	Done
1.3	Analysis Overview	1.2.4	17th Feb	22th Feb		Done
1.3.1	Review of Related Literature	1.2.4	17 th Feb	17 th Feb	AN, AB	Done
1.3.2	Gathering Research Materials	1.3.1	17 th Feb	17 th Feb	AB	Done
1.3.3	Synthesis of Key Insights	1.3.2	18 th Feb	18 th Feb	KKCS, VGK	Done
1.3.4	Pinpointing Crucial Variables	1.3.3	19 th Feb	19 th Feb	VGK	Done
1.3.5	Justification for Model Choices	1.3.4	20 th Feb	21 st Feb	KKCS, AN	Done
1.3.6	Overall Review	1.3.1 - 1.3.5	21 th Feb	22 th Feb	KKCS, AN, AB, VGK	Done
1.4	Project Software - RStudio Setup	1.3.6	13th Feb	14th Feb		Done
1.4.1	Install Latest RStudio	1.3.6	13 th Feb	13 th Feb	KKCS, AN, AB, VGK	Done
1.4.1.1	Download RStudio	1.4.1	13 th Feb	13 th Feb	KKCS, AN, AB, VGK	Done
1.4.1.2	Installation Process	1.4.1.2	13 th Feb	13 th Feb	KKCS, AN, AB, VGK	Done

1.4.1.3	Installation Verification	1.4.1. - 1.4.1.2	13 th Feb	13 th Feb	KKCS, AN, AB, VGK	Done
1.4.2	Install Necessary Libraries	1.4.1.3	14 th Feb	14 th Feb	KKCS, AN, AB, VGK	Done
1.4.2.1	Identify Required Libraries	1.4.2	14 th Feb	14 th Feb	KKCS, AN, AB, VGK	Done
1.4.2.2	Verify Installation	1.4.2 - 1.4.2.1	14 th Feb	14 th Feb	KKCS, AN, AB, VGK	Done
1.5	Project Proposal & Outline (PPO)	1.3.6 - 1.4.2.2	18th Feb	3rd Mar		Done
1.5.1	Proposal Documentation	1.3.6	18 th Feb	24 th Feb	KKCS, AN, AB, VGK	Done
1.5.1.1	Project Description	1.3.6	18 th Feb	19 th Feb	AN	Done
1.5.1.2	Questions	1.5.1.1	20 th Feb	20 th Feb	AB	Done
1.5.1.3	Proposed Methodology	1.5.1.2	21 st Feb	21 st Feb	KKCS	Done
1.5.1.4	Outlining Metrics	1.5.1.3	22 nd Feb	22 nd Feb	VGK	Done
1.5.2	Outline Documentation	1.5.1.4	25 th Feb	29 th Feb	KKCS, AN, AB, VGK	Done
1.5.2.1	Literature Review - References - Supplemental Resources	1.3.1 - 1.3.2	25 th Feb	25 th Feb	VGK, AB	Done
1.5.2.2	Dataset and Sources - Overview and Feature Description	1.2 - 1.5.2.1	26 th Feb	26 th Feb	AB	Done
1.5.2.3	Data Processing and Pipeline & Data Stylized Facts	1.5.2.2	27 th Feb	27 th Feb	KKCS, AN	Done
1.5.2.4	Model Selection	1.3.5 - 1.5.2.3	28 th Feb	29 th Feb	KKCS, AB	Done
1.5.2.5	Software and Libraries	1.5.2.4	29 th Feb	29 th Feb	AN, VGK	Done
1.5.3	Refining the PPO	1.5.2.5	1 st Mar	12 th Mar	AB, AN	Done
1.5.4	Final Review	1.5.3	12 th Mar	3 rd Mar	KKCS, AN, AB, VGK	Done

1.5.5	Submission Preparation	1.5.4	12 th Mar	3 rd Mar	KKCS, AN, AB, VGK	Done
1.6	Coding	1.5.5	6th Mar	9th Apr		Ongoing
1.6.1	Data Handling	1.5.5	6 th Mar	10 th Mar		Done
1.6.1.1	Scripting	1.5.5	10 th Mar	16 th Mar	KKCS	Done
1.6.1.2	Review Session	1.6.1.1	16 th Mar	17 th Mar	KKCS, AN, AB, VGK	Done
1.6.1.3	Modifications	1.6.1.2	17 th Mar	19 th Mar	AN	Done
1.6.2	Charting	1.6.1.3	19 th Mar	20 th Mar		Ongoing
1.6.2.1	Scripting	1.6.1.3	15 th Mar	26 th Mar	AB, VGK	Ongoing
1.6.2.2	Review Session	1.6.2.1	22 nd Mar	27 th Mar	KKCS, AN, AB, VGK	Pending
1.6.2.3	Modifications	1.6.2.2	23 rd Mar	24 th Mar	AB	Pending
1.6.3	Linear Models	1.6.1.3	25 th Mar	26 th Mar		Ongoing
1.6.3.1	Scripting	1.6.1.3	26 th Mar	27 th Mar	AN, AB	Ongoing
1.6.3.2	Review Session	1.6.3.1	27 th Mar	28 th Mar	KKCS, AN, AB, VGK	Pending
1.6.3.3	Modifications	1.6.3.2	28 th Mar	29 th Mar	KKCS	Pending
1.6.4	Combine Versions 1.6.1-1.6.3	1.6.2.3 1.6.3.3	29 th Mar	1 st Apr		Pending
1.6.4.1	Scripting	1.6.2.3 1.6.3.3	1 st Apr	2 nd Apr	KKCS, VGK	Pending
1.6.4.2	Review Session	1.6.4.1	2 nd Apr	4 th Apr	KKCS, AN, AB, VGK	Pending
1.6.4.3	Modifications	1.6.4.3	4 th Mar	9 th Apr	KKCS, AN, AB, VGK	Pending
1.7	Project Plan & Detail	1.1.4 - 1.6	12th Mar	24th Mar		Done
1.7.1	Documentation Creation	1.1.4 - 1.6	12 th Mar	14 th Mar	KKCS, AN, AB, VGK	Done
1.7.2	Documentation Review	1.7.1	14 th Mar	16 th Mar	KKCS, AN, AB, VGK	Done

1.7.3	Documentation Revision	1.7.2	16 th Mar	20 th Mar	KKCS, AN, AB, VGK	Done
1.7.4	Submit on Blackboard	1.7.3	20 th Mar	24 th Mar	KKCS, AN, AB, VGK	Done
1.8	Project Demo & Report	1.7.4	8th Apr	17th Apr		Pending
1.8.1	Report Creation	1.6.4.3	8 th Apr	14 th Apr		Pending
1.8.1.1	Report Drafting	1.6.4.3	14 th Apr	15 th Apr	KKCS, AN, AB, VGK	Pending
1.8.1.2	Report Review	1.8.1.1	15 th Apr	16 th Apr	KKCS, AN, AB, VGK	Pending
1.8.1.3	Report Revision	1.8.1.2	16 th Apr	17 th Apr	KKCS, AN, AB, VGK	Pending
1.8.2	Presentation Preparation	1.6.4.3	17 th Apr	18 th Apr		Pending
1.8.2.1	Presentation Draft	1.6.4.3	18 th Apr	19 th Apr	KKCS, AN, AB, VGK	Pending
1.8.2.2	Presentation Review	1.8.2.1	19 th Apr	20 th Apr	KKCS, AN, AB, VGK	Pending
1.8.2.3	Presentation Revision	1.8.2.2	20 st Apr	20 th Apr	KKCS, AN, AB, VGK	Pending
1.8.3	Final Adjustments	1.8.2.3	20 th Apr	21 st Apr	KKCS, AN, AB, VGK	Pending
1.8.4	Report and Presentation Submission	1.8.3	21 st Apr	21 st Apr	KKCS, AN, AB, VGK	Pending