CHAD-AIRLINE Executive Report

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Scope: Monte Carlo KPI → Risk (CI/VaR/CVaR) → Probability of Loss → RAROC → Stress Test → Board Decisions → Execution Plan → Explainability.

Executive Summary

Key Decisions (Top 20)

flight	class	board_decision	RAROC	probability_of_loss	survival
FL-1007	first	GROUND IMMEDIATELY	1.1730764178850726	0.0543	FAILS
FL-1003	first	GROUND IMMEDIATELY	1.170363033240624	0.0642	FAILS
FL-1001	first	GROUND IMMEDIATELY	1.152683015802728	0.071	FAILS
FL-1004	first	GROUND IMMEDIATELY	1.1511628912258216	0.0562	FAILS
FL-1008	first	GROUND IMMEDIATELY	1.13635048815104	0.0533	FAILS
FL-1005	first	GROUND IMMEDIATELY	1.1245680838449852	0.0558	FAILS
FL-1006	business	RESTRUCTURE	1.1907224702954105	0.0001	SURVIVES
FL-1008	business	RESTRUCTURE	1.1996115679059107	0.0	SURVIVES
FL-1009	first	RESTRUCTURE	1.1902988272037476	0.0551	SURVIVES
FL-1003	business	RESTRUCTURE	1.187894712586933	0.0001	SURVIVES
FL-1009	economy	RESTRUCTURE	1.18576894046506	0.0	SURVIVES
FL-1002	business	RESTRUCTURE	1.182074323526413	0.0001	SURVIVES
FL-1004	business	RESTRUCTURE	1.1489086305161895	0.0001	FAILS
FL-1009	business	RESTRUCTURE	1.1269505234394892	0.0001	FAILS
FL-1003	economy	MAINTAIN	1.2961174562940057	0.0	SURVIVES
FL-1001	economy	MAINTAIN	1.2801399793414614	0.0	SURVIVES
FL-1006	first	MAINTAIN	1.2280783250002962	0.0544	SURVIVES
FL-1005	economy	MAINTAIN	1.234319685997588	0.0	SURVIVES
FL-1010	economy	MAINTAIN	1.238560323566623	0.0	SURVIVES
FL-1006	economy	MAINTAIN	1.244570576114244	0.0	SURVIVES

Decision Distribution

board_decision	count
MAINTAIN	16
RESTRUCTURE	8
GROUND IMMEDIATELY	6

Risk Report

flight	class	mean_revenue	revenue_std	ci_lower_95	ci_upper_95	VaR_95	CVaR_95
FL-1001	business	19570.959183618383	797.0019732182592	17739.979567054306	20694.29185852004	18044.58819004524	17705.34456376078
FL-1001	economy	22383.183910743555	403.398743062515	21634.03932133866	23230.58841063311	21707.239025942963	21517.87983987896
FL-1001	first	14263.911615746783	1457.4510657529704	10876.037438527395	16263.754595854318	11229.188776333289	10765.838141086218
FL-1002	business	19604.888623723276	777.1489296499557	17878.558842539245	20709.256027978623	18041.9658465911	17757.397739220738
FL-1002	economy	22371.23300506084	451.7734612061643	21405.82139758512	23146.042323254755	21542.180896797214	21372.931954583804
FL-1002	first	14337.306102815472	1357.8910168690495	11216.731487688025	16230.906779670446	11608.014910949978	11000.451367490969
FL-1003	business	19579.56509582772	777.5687867310114	17762.710164147356	20632.391575499463	18018.801908959293	17725.542758546384
FL-1003	economy	22375.277041082358	419.3237709674556	21495.911475593068	23155.405141657564	21654.16765117677	21440.634572928204
FL-1003	first	14241.071919037477	1405.2798726231497	10954.455746834912	16142.599669056142	11375.203497818213	10886.96546071078
FL-1004	business	19609.376424101843	804.2285167642327	17713.82999429111	20756.03623290858	17869.37467261272	17610.273394702705
FL-1004	economy	22365.22471730104	441.3629624076656	21473.29235500817	23205.54205993675	21593.93955284609	21401.35638469446
FL-1004	first	14301.572222815004	1351.1117636732374	11053.937290982169	16124.574938108844	11392.323576507564	10952.553139836924
FL-1005	business	19696.26308329372	726.7583561648427	17866.021275993196	20775.78321580341	18212.51710483524	17826.37738991793
FL-1005	economy	22340.648875470277	429.3604149367446	21424.287536378517	23137.114773848414	21596.58711046152	21422.23879132186
FL-1005	first	14267.938303747333	1345.232898431625	11045.316530982189	16250.9950807621	11401.375076907718	11044.29278851981
FL-1006	business	19628.396535172327	770.4206698199878	17860.325548904148	20769.70187210301	18048.061546910893	17746.656154055403
FL-1006	economy	22360.857542881586	428.701568338709	21511.058515652985	23173.48324085608	21626.12273835228	21446.42822391736
FL-1006	first	14374.943944472478	1344.949794618801	11021.870103138031	16104.638446945948	11499.914395562471	10844.18247172072
FL-1007	business	19617.750827256637	717.7677368585361	17936.335401640197	20714.88171066488	18236.12399910147	17888.990520046922
FL-1007	economy	22373.776972473665	441.6953538553097	21442.7152485776	23204.63020090724	21610.553501718747	21403.364277559143
FL-1007	first	14333.767754360377	1339.742280436013	11213.475228594947	16176.258891252071	11539.267363630694	11055.605246224764
FL-1008	business	19671.255285657066	700.2063770965002	17945.990013206465	20629.018617115435	18188.75005396786	17892.82486024166
FL-1008	economy	22357.00578919328	427.5332997464131	21501.069498511664	23089.837126010625	21595.81611525949	21437.461198188164
FL-1008	first	14367.863284368534	1335.668491275991	11151.668731956785	16235.593899833078	11466.243618908224	11070.606361094053
FL-1009	business	19522.4124644692	803.1399523636028	17741.85767440665	20719.518926848104	17898.419586489137	17692.252840567566
FL-1009	economy	22358.005032000223	439.24833686841066	21369.04418582798	23073.71142195805	21502.744328236724	21343.863453477177
FL-1009	first	14303.730451392305	1343.6045448226432	11011.717626613912	16242.194427268018	11485.368081517188	10949.03702789478
FL-1010	business	19607.057761176915	721.8700305396646	17973.97607183255	20681.68506135263	18169.1459110998	17877.16391952386
FL-1010	economy	22354.222735697644	418.80568310220616	21469.592330227653	23118.72798015657	21622.89001561273	21448.423045274416
FL-1010	first	14306.71501753291	1381.3013292703174	11002.311246578422	16345.517177366582	11590.606776567463	11001.779889315128

Probability of Loss

flight	class	mean_revenue	revenue_std	probability_of_loss	risk_level
FL-1001	business	19570.959183618383	797.0019732182592	0.0001	SAFE
FL-1001	economy	22383.183910743555	403.398743062515	0.0	SAFE
FL-1001	first	14263.911615746783	1457.4510657529704	0.071	WARNING
FL-1002	business	19604.88862372328	777.1489296499557	0.0001	SAFE
FL-1002	economy	22371.23300506084	451.7734612061643	0.0	SAFE
FL-1002	first	14337.306102815472	1357.8910168690495	0.0566	WARNING
FL-1003	business	19579.56509582772	777.5687867310114	0.0001	SAFE
FL-1003	economy	22375.27704108236	419.3237709674556	0.0	SAFE
FL-1003	first	14241.071919037477	1405.2798726231497	0.0642	WARNING
FL-1004	business	19609.376424101843	804.2285167642327	0.0001	SAFE
FL-1004	economy	22365.22471730104	441.3629624076656	0.0	SAFE
FL-1004	first	14301.572222815004	1351.1117636732374	0.0562	WARNING
FL-1005	business	19696.26308329372	726.7583561648427	0.0	SAFE
FL-1005	economy	22340.64887547028	429.3604149367446	0.0	SAFE
FL-1005	first	14267.938303747333	1345.232898431625	0.0558	WARNING
FL-1006	business	19628.396535172327	770.4206698199878	0.0001	SAFE
FL-1006	economy	22360.857542881586	428.701568338709	0.0	SAFE
FL-1006	first	14374.943944472478	1344.949794618801	0.0544	WARNING
FL-1007	business	19617.75082725664	717.7677368585361	0.0	SAFE
FL-1007	economy	22373.776972473665	441.6953538553097	0.0	SAFE
FL-1007	first	14333.767754360377	1339.742280436013	0.0543	WARNING
FL-1008	business	19671.255285657066	700.2063770965002	0.0	SAFE
FL-1008	economy	22357.00578919328	427.5332997464131	0.0	SAFE
FL-1008	first	14367.863284368534	1335.668491275991	0.0533	WARNING
FL-1009	business	19522.4124644692	803.1399523636028	0.0001	SAFE
FL-1009	economy	22358.005032000223	439.24833686841066	0.0	SAFE
FL-1009	first	14303.730451392305	1343.6045448226432	0.0551	WARNING
FL-1010	business	19607.057761176915	721.8700305396646	0.0	SAFE
FL-1010	economy	22354.222735697644	418.80568310220616	0.0	SAFE
FL-1010	first	14306.71501753291	1381.3013292703174	0.0601	WARNING

RAROC

	mean_revenue	revenue_std	ci_lower_95	ci_upper_95	VaR_95	CVaR_95	RAROC
my	22375.27704108236	419.3237709674556	21495.911475593068	23155.405141657564	21654.16765117677	21440.634572928204	1.2961174562940
my	22383.183910743555	403.398743062515	21634.03932133866	23230.58841063311	21707.239025942963	21517.87983987896	1.2801399793414
my	22373.776972473665	441.6953538553097	21442.7152485776	23204.63020090724	21610.553501718747	21403.364277559143	1.2714660018967
ss	19696.26308329372	726.7583561648427	17866.021275993196	20775.78321580341	18212.51710483524	17826.37738991793	1.2602465115480
ss	19617.75082725664	717.7677368585361	17936.335401640197	20714.88171066488	18236.12399910147	17888.990520046922	1.2512498107163
my	22365.22471730104	441.3629624076656	21473.29235500817	23205.54205993675	21593.93955284609	21401.35638469446	1.2496912646929
my	22360.857542881586	428.701568338709	21511.058515652985	23173.48324085608	21626.12273835228	21446.42822391736	1.2445705761142
my	22354.222735697644	418.80568310220616	21469.592330227653	23118.72798015657	21622.89001561273	21448.423045274416	1.2385603235666
my	22340.64887547028	429.3604149367446	21424.28753637852	23137.11477384841	21596.58711046152	21422.23879132186	1.2343196859975
	14374.943944472478	1344.949794618801	11021.870103138031	16104.638446945948	11499.914395562471	10844.18247172072	1.2280783250002
	14337.306102815472	1357.8910168690495	11216.731487688025	16230.906779670446	11608.014910949978	11000.451367490969	1.2226085458634
ss	19570.959183618383	797.0019732182592	17739.979567054306	20694.29185852004	18044.58819004524	17705.34456376078	1.2222550269317
	14306.71501753291	1381.3013292703174	11002.311246578422	16345.517177366582	11590.606776567463	11001.779889315128	1.2167906559729
my	22357.00578919328	427.5332997464131	21501.069498511664	23089.837126010625	21595.81611525949	21437.461198188164	1.2080360815366
my	22371.23300506084	451.7734612061643	21405.82139758512	23146.042323254755	21542.180896797214	21372.931954583804	1.2041475324969
ss	19607.057761176915	721.8700305396646	17973.97607183255	20681.68506135263	18169.1459110998	17877.16391952386	1.2030597296769
ss	19671.255285657066	700.2063770965002	17945.990013206465	20629.018617115435	18188.75005396786	17892.82486024166	1.1996115679059
ss	19628.396535172327	770.4206698199878	17860.325548904148	20769.70187210301	18048.061546910893	17746.656154055403	1.1907224702954
	14303.730451392305	1343.6045448226432	11011.717626613912	16242.194427268018	11485.368081517188	10949.03702789478	1.19029882720037
ss	19579.56509582772	777.5687867310114	17762.710164147356	20632.391575499463	18018.801908959293	17725.542758546384	1.1878947125869
my	22358.005032000223	439.24833686841066	21369.04418582798	23073.71142195805	21502.744328236724	21343.863453477177	1.1857689404650
ss	19604.88862372328	777.1489296499557	17878.558842539245	20709.256027978623	18041.9658465911	17757.397739220738	1.1820743235264
	14333.767754360377	1339.742280436013	11213.475228594947	16176.258891252071	11539.267363630694	11055.605246224764	1.1730764178850
	14241.071919037477	1405.2798726231497	10954.455746834912	16142.599669056142	11375.203497818213	10886.96546071078	1.1703630332406
	14263.911615746783	1457.4510657529704	10876.037438527395	16263.754595854318	11229.188776333289	10765.838141086218	1.1526830158027
	14301.572222815004	1351.1117636732374	11053.937290982169	16124.574938108844	11392.323576507564	10952.553139836924	1.1511628912258
ss	19609.376424101843	804.2285167642327	17713.82999429111	20756.03623290858	17869.37467261272	17610.273394702705	1.1489086305161
	14367.863284368534	1335.668491275991	11151.668731956785	16235.593899833078	11466.243618908224	11070.606361094053	1.1363504881510
ss	19522.4124644692	803.1399523636028	17741.85767440665	20719.518926848104	17898.419586489137	17692.252840567566	1.1269505234394
	14267.938303747333	1345.232898431625	11045.316530982189	16250.9950807621	11401.375076907718	11044.29278851981	1.1245680838449

Stress Test

flight	class	stress_multiplier	stressed_raroc	survival
FL-1003	economy	0.85	1.1016998378499048	SURVIVES
FL-1001	economy	0.85	1.0881189824402422	SURVIVES
FL-1007	economy	0.85	1.0807461016122426	SURVIVES
FL-1005	business	0.85	1.0712095348158663	SURVIVES
FL-1007	business	0.85	1.063562339108855	SURVIVES
FL-1004	economy	0.85	1.0622375749889652	SURVIVES
FL-1006	economy	0.85	1.0578849896971074	SURVIVES
FL-1010	economy	0.85	1.0527762750316294	SURVIVES
FL-1005	economy	0.85	1.0491717330979498	SURVIVES
FL-1006	first	0.85	1.0438665762502517	SURVIVES
FL-1002	first	0.85	1.0392172639839043	SURVIVES
FL-1001	business	0.85	1.0389167728919984	SURVIVES
FL-1010	first	0.85	1.0342720575769764	SURVIVES
FL-1008	economy	0.85	1.026830669306131	SURVIVES
FL-1002	economy	0.85	1.0235254026224032	SURVIVES
FL-1010	business	0.85	1.022600770225406	SURVIVES
FL-1008	business	0.85	1.019669832720024	SURVIVES
FL-1006	business	0.85	1.012114099751099	SURVIVES
FL-1009	first	0.85	1.0117540031231853	SURVIVES
FL-1003	business	0.85	1.009710505698893	SURVIVES
FL-1009	economy	0.85	1.007903599395301	SURVIVES
FL-1002	business	0.85	1.004763174997451	SURVIVES
FL-1007	first	0.85	0.9971149552023116	FAILS
FL-1003	first	0.85	0.9948085782545304	FAILS
FL-1001	first	0.85	0.9797805634323188	FAILS
FL-1004	first	0.85	0.9784884575419484	FAILS
FL-1004	business	0.85	0.976572335938761	FAILS
FL-1008	first	0.85	0.965897914928384	FAILS
FL-1009	business	0.85	0.9579079449235658	FAILS
FL-1005	first	0.85	0.9558828712682372	FAILS

Execution Plan

revenue_std	ci_lower_95	ci_upper_95	VaR_95	CVaR_95	stress_multiplier	stressed_raroc
1339.742280436013	11213.475228594947	16176.258891252071	11539.267363630694	11055.605246224764	0.85	0.9971149552023116
1405.2798726231497	10954.455746834912	16142.599669056142	11375.203497818213	10886.96546071078	0.85	0.9948085782545304
1457.4510657529704	10876.037438527395	16263.754595854318	11229.188776333289	10765.838141086218	0.85	0.9797805634323188
1351.1117636732374	11053.937290982169	16124.574938108844	11392.323576507564	10952.553139836924	0.85	0.9784884575419484
1335.668491275991	11151.668731956785	16235.593899833078	11466.243618908224	11070.606361094053	0.85	0.965897914928384
1345.232898431625	11045.316530982189	16250.9950807621	11401.375076907718	11044.29278851981	0.85	0.9558828712682372
419.3237709674556	21495.911475593068	23155.405141657564	21654.16765117677	21440.634572928204	0.85	1.1016998378499048
403.398743062515	21634.03932133866	23230.58841063311	21707.239025942963	21517.87983987896	0.85	1.0881189824402422
441.6953538553097	21442.7152485776	23204.63020090724	21610.553501718747	21403.364277559143	0.85	1.0807461016122426
726.7583561648427	17866.021275993196	20775.78321580341	18212.51710483524	17826.37738991793	0.85	1.0712095348158663
717.7677368585361	17936.335401640197	20714.88171066488	18236.12399910147	17888.990520046922	0.85	1.063562339108855
441.3629624076656	21473.29235500817	23205.54205993675	21593.93955284609	21401.35638469446	0.85	1.0622375749889652
428.701568338709	21511.058515652985	23173.48324085608	21626.12273835228	21446.42822391736	0.85	1.0578849896971074
418.80568310220616	21469.592330227653	23118.72798015657	21622.89001561273	21448.423045274416	0.85	1.0527762750316294
429.3604149367446	21424.28753637852	23137.11477384841	21596.58711046152	21422.23879132186	0.85	1.0491717330979498
1344.949794618801	11021.870103138031	16104.638446945948	11499.914395562471	10844.18247172072	0.85	1.0438665762502517
1357.8910168690495	11216.731487688025	16230.906779670446	11608.014910949978	11000.451367490969	0.85	1.0392172639839043
797.0019732182592	17739.979567054306	20694.29185852004	18044.58819004524	17705.34456376078	0.85	1.0389167728919984
1381.3013292703174	11002.311246578422	16345.517177366582	11590.606776567463	11001.779889315128	0.85	1.0342720575769764
427.5332997464131	21501.069498511664	23089.837126010625	21595.81611525949	21437.461198188164	0.85	1.026830669306131
451.7734612061643	21405.82139758512	23146.042323254755	21542.180896797214	21372.931954583804	0.85	1.0235254026224032
721.8700305396646	17973.97607183255	20681.68506135263	18169.1459110998	17877.16391952386	0.85	1.022600770225406
700.2063770965002	17945.990013206465	20629.018617115435	18188.75005396786	17892.82486024166	0.85	1.019669832720024
770.4206698199878	17860.325548904148	20769.70187210301	18048.061546910893	17746.656154055403	0.85	1.012114099751099
1343.6045448226432	11011.717626613912	16242.194427268018	11485.368081517188	10949.03702789478	0.85	1.0117540031231853
777.5687867310114	17762.710164147356	20632.391575499463	18018.801908959293	17725.542758546384	0.85	1.009710505698893
439.24833686841066	21369.04418582798	23073.71142195805	21502.744328236724	21343.863453477177	0.85	1.007903599395301
777.1489296499557	17878.558842539245	20709.256027978623	18041.9658465911	17757.397739220738	0.85	1.004763174997451
804.2285167642327	17713.82999429111	20756.03623290858	17869.37467261272	17610.273394702705	0.85	0.976572335938761
803.1399523636028	17741.85767440665	20719.518926848104	17898.419586489137	17692.252840567566	0.85	0.9579079449235658

Explainability

s_multiplier	rev_stressed_raroc	rev_survival	rev_board_decision	rev_frequency_change	rev_pricing_action	rev_fleet_action	re
	0.9971149552023116	FAILS	GROUND IMMEDIATELY	-100%	STOP SALES	GROUND AIRCRAFT	G
	0.9948085782545304	FAILS	GROUND IMMEDIATELY	-100%	STOP SALES	GROUND AIRCRAFT	G
	0.9797805634323188	FAILS	GROUND IMMEDIATELY	-100%	STOP SALES	GROUND AIRCRAFT	G
	0.9784884575419484	FAILS	GROUND IMMEDIATELY	-100%	STOP SALES	GROUND AIRCRAFT	G
	0.965897914928384	FAILS	GROUND IMMEDIATELY	-100%	STOP SALES	GROUND AIRCRAFT	G
	0.9558828712682372	FAILS	GROUND IMMEDIATELY	-100%	STOP SALES	GROUND AIRCRAFT	G
	1.1016998378499048	SURVIVES	MAINTAIN	0%	HOLD	NO CHANGE	A
	1.0881189824402422	SURVIVES	MAINTAIN	0%	HOLD	NO CHANGE	A
	1.0807461016122426	SURVIVES	MAINTAIN	0%	HOLD	NO CHANGE	A
	1.0712095348158663	SURVIVES	MAINTAIN	0%	HOLD	NO CHANGE	A
	1.063562339108855	SURVIVES	MAINTAIN	0%	HOLD	NO CHANGE	A
	1.0622375749889652	SURVIVES	MAINTAIN	0%	HOLD	NO CHANGE	A
	1.0578849896971074	SURVIVES	MAINTAIN	0%	HOLD	NO CHANGE	A
	1.0527762750316294	SURVIVES	MAINTAIN	0%	HOLD	NO CHANGE	A
	1.0491717330979498	SURVIVES	MAINTAIN	0%	HOLD	NO CHANGE	A
	1.0438665762502517	SURVIVES	MAINTAIN	0%	HOLD	NO CHANGE	A
	1.0392172639839043	SURVIVES	MAINTAIN	0%	HOLD	NO CHANGE	A
	1.0389167728919984	SURVIVES	MAINTAIN	0%	HOLD	NO CHANGE	A
	1.0342720575769764	SURVIVES	MAINTAIN	0%	HOLD	NO CHANGE	A
	1.026830669306131	SURVIVES	MAINTAIN	0%	HOLD	NO CHANGE	A
	1.0235254026224032	SURVIVES	MAINTAIN	0%	HOLD	NO CHANGE	A
	1.022600770225406	SURVIVES	MAINTAIN	0%	HOLD	NO CHANGE	A
	1.019669832720024	SURVIVES	RESTRUCTURE	-20%	DISCOUNT	DOWNGAUGE	A
	1.012114099751099	SURVIVES	RESTRUCTURE	-20%	DISCOUNT	DOWNGAUGE	A
	1.0117540031231853	SURVIVES	RESTRUCTURE	-20%	DISCOUNT	DOWNGAUGE	A
	1.009710505698893	SURVIVES	RESTRUCTURE	-20%	DISCOUNT	DOWNGAUGE	A
	1.007903599395301	SURVIVES	RESTRUCTURE	-20%	DISCOUNT	DOWNGAUGE	A
	1.004763174997451	SURVIVES	RESTRUCTURE	-20%	DISCOUNT	DOWNGAUGE	A
	0.976572335938761	FAILS	RESTRUCTURE	-20%	DISCOUNT	DOWNGAUGE	A
	0.9579079449235658	FAILS	RESTRUCTURE	-20%	DISCOUNT	DOWNGAUGE	A

Charts & Visual Evidence
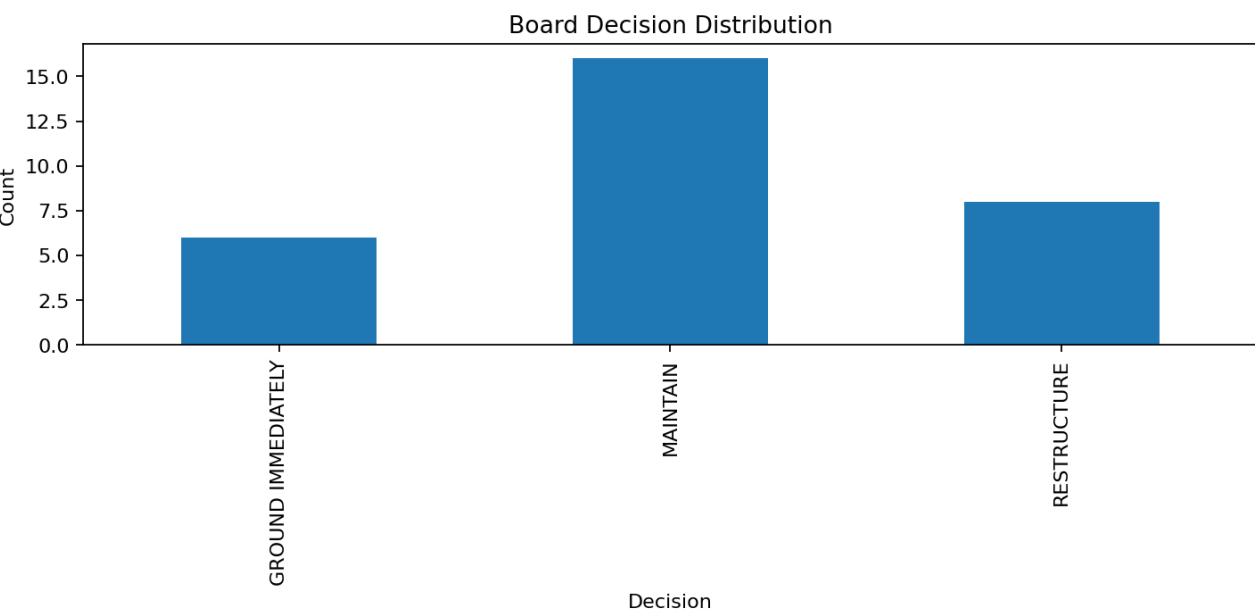
Chart 1: 04_board_decision_distribution.png

Board Decision Distribution

Chart 2: 05_fleet_action_distribution.png

Fleet Action Distribution
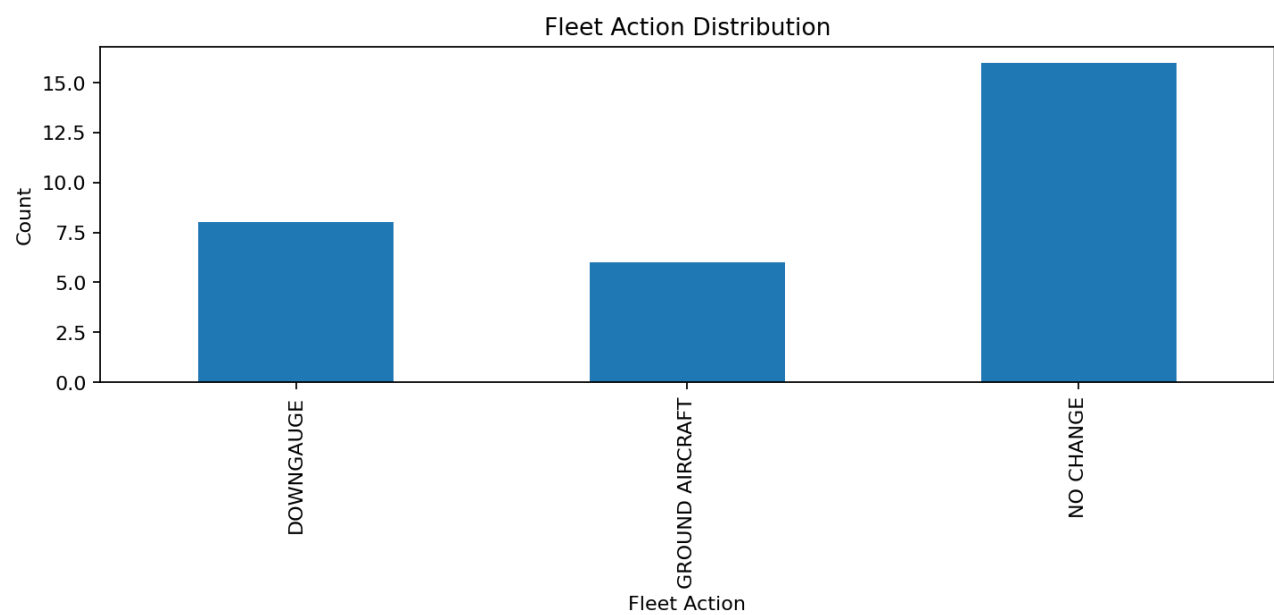
Chart 3: 01_mean_revenue_by_flight_class.png

Mean Revenue by Flight and Cabin Class
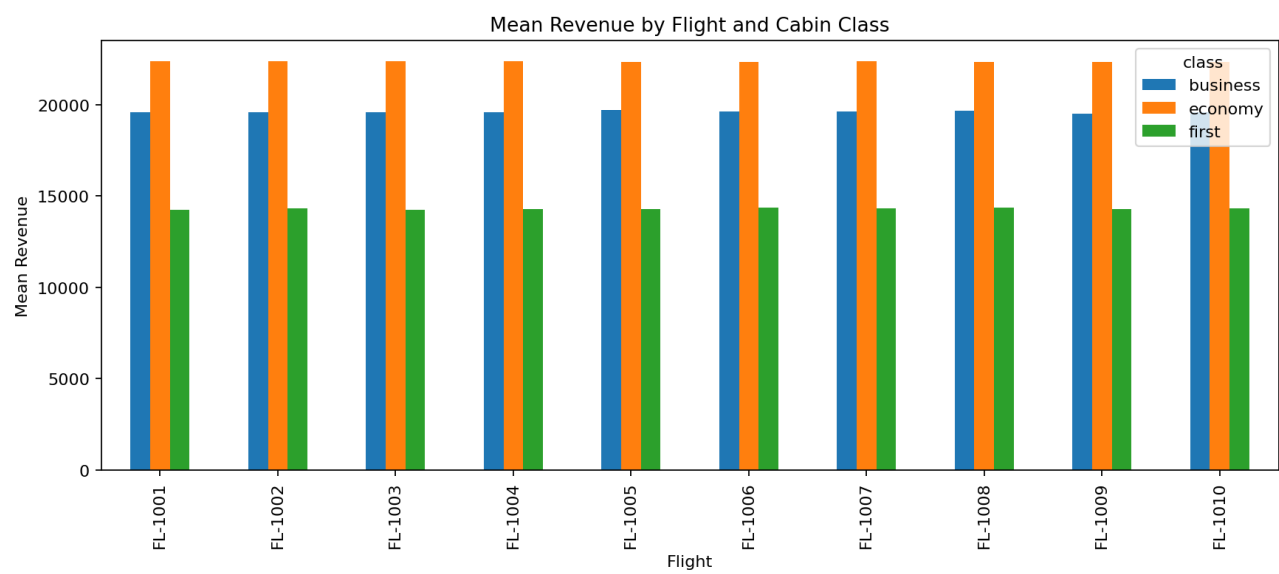
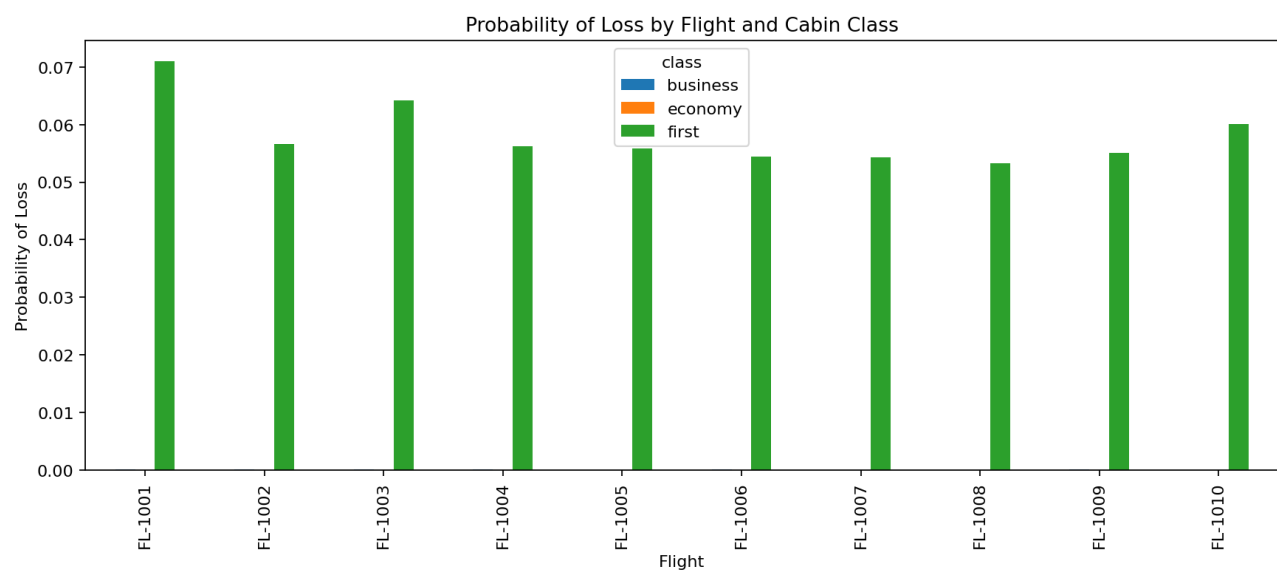**Chart 4: 02_probability_of_loss_by_flight_class.png**

Probability of Loss by Flight and Cabin Class

Chart 5: 03_raroc_by_flight_class.png

RAROC by Flight and Cabin Class