

„Manhattan eats Finance“



Restaurbank – Satisfying Manhattan's hunger

COVID-19 puts Restaurobank's business at risk

- COVID-19 significantly changed Manhattan's restaurant scene.
- Restaurobank needs to protect existing business by limiting credit defaults of its existing clients.
- New business should be acquired by approaching existing, well performing restaurants to refinance their debt.
- New openings should be supported more to ensure their success and prevents defaults from the start.
- Front office and risk management need to work together on this.



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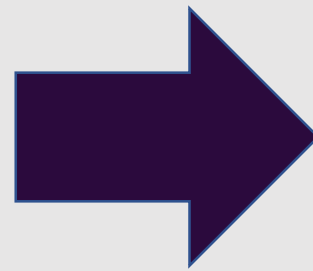
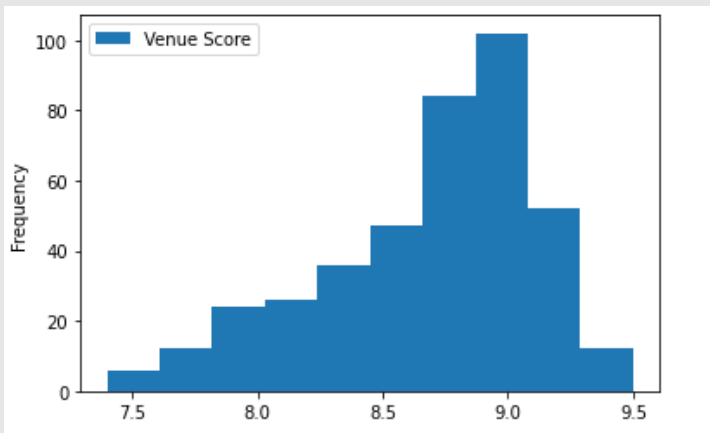
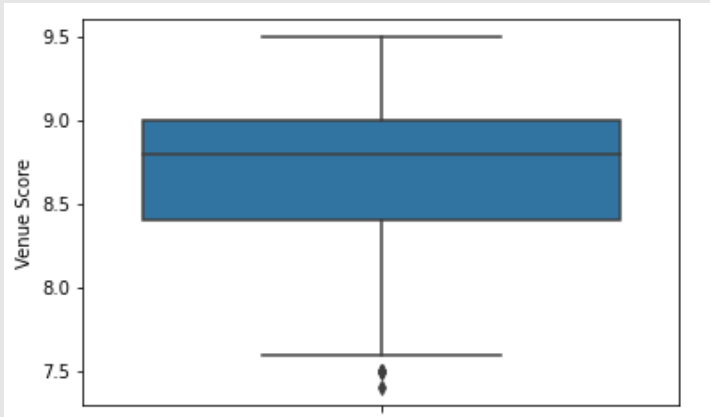
Leveraging Foursquare data

- Venue locations, types and scores data from [Foursquare's Places API](#).
- Data is limited to 600 rows. From the raw data 6 features are extracted and used for map construction.
- These features are: Venue ID, name, latitude, longitude, category, and score.
- Due to unequal distribution venue score was normalized using Z-score.

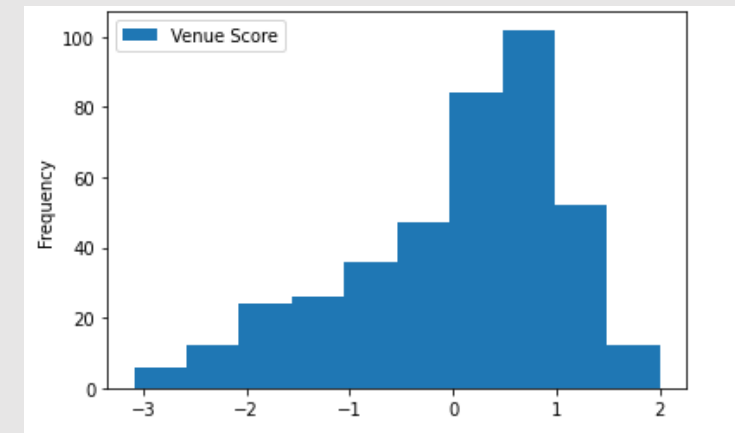
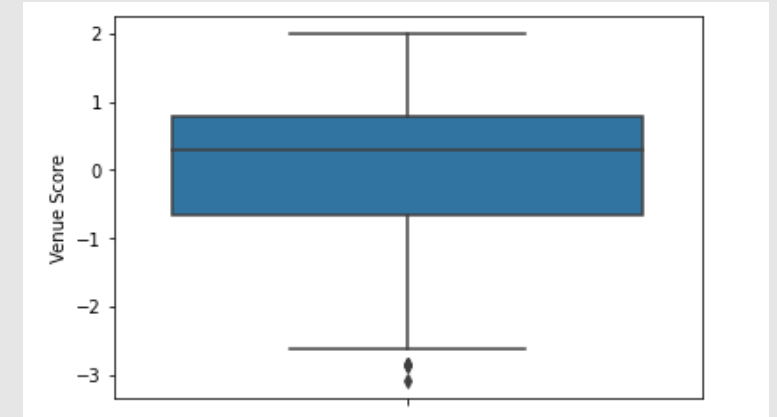


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Statistics



Z-score Normalization



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- We did not change score's distribution, but took care that above average rated restaurants correctly weighted.



Results

Recommendations

- Approach existing clients at 5th/32nd and 2nd/79th to ensure they will not default.
- Guide potential clients with new openings to areas around PennStation and Civic Center.
- Approach top-rated restaurant owners in the areas around Delancey/Allen and Lexington/91st for refinancing.



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Conclusion

- A concise map granting high-level insights into Manhattan's restaurant scene was constructed.
- Although it needs further refinement it serves as a starting point for management discussions.
- Possible enhancements:
 - Include Foursquare score in credit risk model and plot credit risk index on map.
 - Additional map overlays, e.g. with markers for the different restaurants.



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