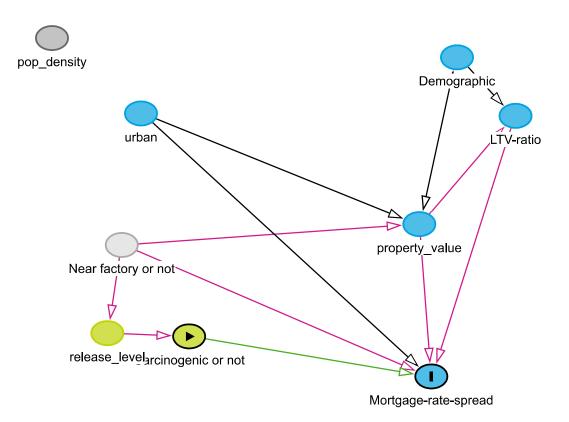
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∀ariable	
pop_density	
□ exposure	
□ outcome	
□ adjusted	
□ selected	
unobserved	
delete rename	
∀ View mode	
normal	
○ moral graph	
○ correlation graph	
○ equivalence class	
☐ atomic direct effects	
classic	
○ SEM-like	
✓ causal paths	
☑ biasing paths	
✓ ancestral structure	
• exposure	
① outcome	
ancestor of exposure	
ancestor of outcome	
ancestor of exposure and outcome	
O adjusted variable	
unobserved (latent)	
other variable	
causal path	
biasing path	
▼ Causal effect identification	
Adjustment (total effect)	
Exposure: Carcinogenic or not Outcome: Mortgage-rate-spread	
Biasing paths are open.	

Minimal sufficient adjustment sets for estimating the total effect of Carcinogenic or not on Mortgage-rate-spread:

- release_level
- ▼ Testable implications

The model implies the following conditional independences:

- Carcinogenic or not ⊥ property_value | release_level
- Carcinogenic or not \(\pm \) LTV-ratio \(\pm \) Demographic, property_value
- Carcinogenic or not ⊥ LTV-ratio | release_level

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- Carcinogenic or not ⊥ urban
- Carcinogenic or not ⊥ Demographic
- Carcinogenic or not ⊥ pop_density
- Mortgage-rate-spread \(\pm\) pop_density
- property_value \(\text{pop_density} \)
- LTV-ratio ⊥ urban | Demographic, property_value

Show all ...

Model code

```
dag {
  "Carcinogenic or not" [exposure,pos="-0.955,1.223"]
  "LTV-ratio" [pos="1.176,-0.714"]
  "Mortgage-rate-spread" [outcome,pos="0.626,1.575"]
  "Near factory or not" [latent,pos="-1.395,0.420"]
  Demographic [pos="0.794,-1.228"]
  pop_density [pos="-1.851,-1.397"]
  property_value [pos="0.548,0.237"]
  release_level [pos="-1.489,1.195"]
  urban [pos="-1.269,-0.735"]
```

You have modified the model code. To draw the modified model, click here: Update DAG

Summary

exposure(s) Carcinogenic or not outcome(s) Mortgage-rate-spread covariates 7 causal paths 1

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