

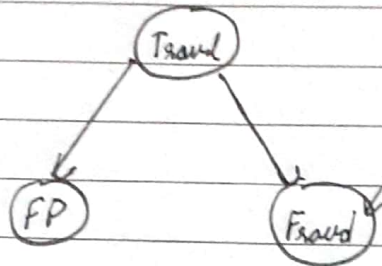
# Bayesian Network

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Shivatal

| Travel | P(FP)  |
|--------|--------|
| T      | 0.88   |
| F      | 0.0001 |



| OD | P(OD) |
|----|-------|
|    | 0.7   |

| OD | P(OP) |
|----|-------|
| T  | 0.4   |
| F  | 0.05  |

| Travel | OP | P(Fraud) |
|--------|----|----------|
| T      | T  | 0.995    |
| T      | F  | 0.85     |
| F      | T  | 0.8      |
| F      | F  | 0.25     |

Conditional

Assumption: <sup>conditionally</sup> Fraud and Foreign Purchases are independent of ~~Travel~~. ~~Fraud~~ given Travel.