

## Assignment - 01

Course Title: Pattern Recognition

Course Code: CSJ 415

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Section: B

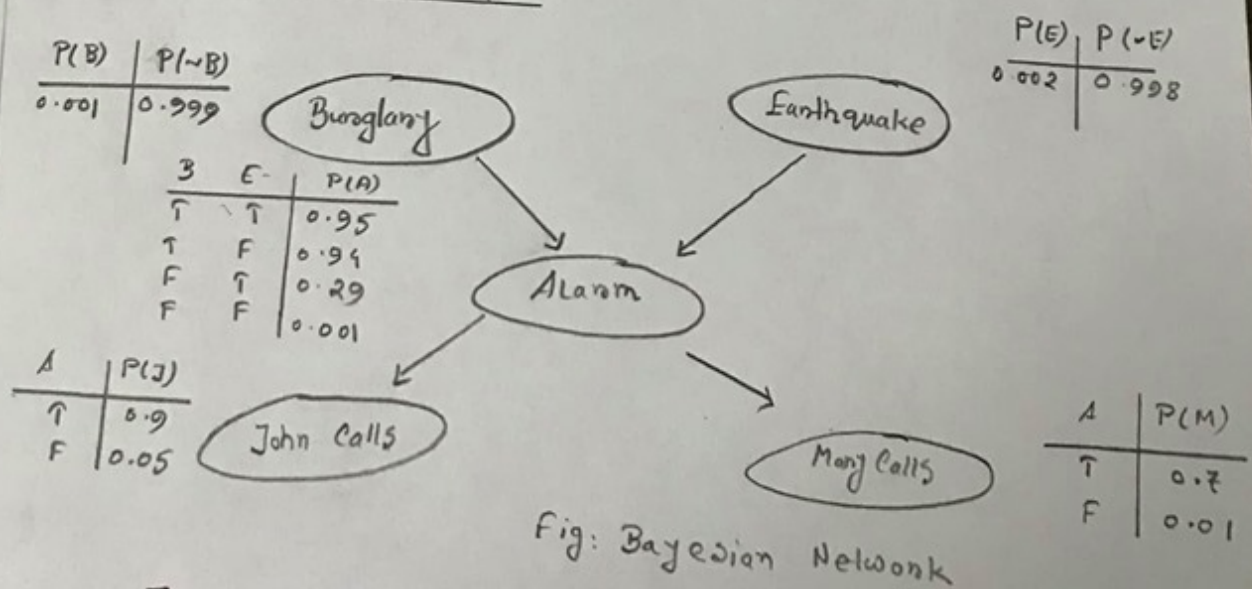
## Bayesian Network:

Bayes nets are graphical models for reasoning under uncertainty. The nodes in a Bayesian network represent a set of random variables. It's a directed acyclic graph

### Advantages:

- Bayesian network represents the causal probabilistic relationship among a set of random variables.
- It represents conditional dependencies.
- It does Parameter learning
- Inferencing unobserved variables
- Structure learning

### Example:



The circles represent random variable.  
The arrows are used to show influence.