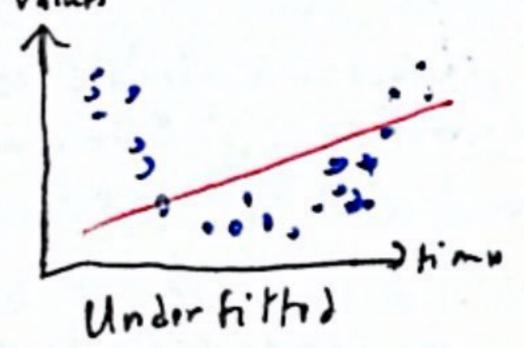
Overfitting & Underfitting

- Overfitting happens when the ML model learns The noise and random fluctioations in truning Ada rather than learning the true underlying patfras its like memorizing the answers it dose will on training data but bad on more unseen dala.

- · happens who Model is too complex for task or training too long on to little da La
- Under fitting occurs when a ML model is too Simple to capture importer patterns in data resulting in poor preformance in transing and test data. it maters over simplifed assumptions, this happens when a model has a high bias. for exasing Ainer model for non-liner Justes



Validation

- Validation is the practice of evaluating a models ereformance on dute it hosent prem trained on (Lusent seen) by setting aside a portion of transmy data called "Validation set" to simulate how well a model will preform on now haster data * Validation set is used to fine fine the model in training process before testing test ser is used to evaluate the fixel completed model. . A this is one was of estimating bias and variance in training

Single date set

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