Contribution evaluation in VFL

- **Contribution Evaluation in the VFL Lifecycle**
  - **Data Collection & Pre-processing**: HI-GAS [29], VF-PS [43], FedValue [44], FedSDG-FS [45]
  - **VFL Training**: π_{SS-FS}, π_{H-FS} [52], FedSVM, FedRF [53], FedSDG-FS [45], PSO-EVFFS [55], CRDP-FL [57], LESS-VFL [50], VerFedFL [46], HI-GAS [29], Khan et al. [48], Zhang et al. [51], VFLFS [54], VFL-Market [49]
  - **Model Inference**: EVFL [59], Wang [58], MI-VFL [60], Falcon [62], Wang et al. [28], Fed-EINI [61]

- **Granularity of Contribution Evaluation**
  - **Feature Level**: π_{SS-FS}, π_{H-FS} [52], Fed-EINI [61], FedSVM, FedRF [53], FedSDG-FS [45], Falcon [62], PSO-EVFFS [55], Zhang et al. [51], CRDP-FL [57], VFLFS [54], MMVFL [56], MI-VFL [60], LESS-VFL [50], FedValue [44]
  - **Party Level**: EVFL [59], VerFedFL [46], VF-PS [43], Khan et al. [48], HI-GAS [29], DIG-FL [47], Wang et al. [28], Wang [58], FedValue [44], VFL-Market [49]

- **Privacy-awareness of the Contribution Evaluation Process**
  - **Protocol 0 (P-0) Private Data Based**: HI-GAS [29], π_{SS-FS}, π_{H-FS} [52]
  - **Protocol 1 (P-1) Intermediate Data Based**: EVFL [59], VerFedFL [46], Falcon [62], MI-VFL [60], DIG-FL [47], LESS-VFL [50]
  - **Protocol 2 (P-2) Model-related Data Based**: FedSVM, FedRF [53], FedSDG-FS [45], PSO-EVFFS [55], VFLFS [54], HI-GAS [29], Khan et al. [48], Zhang et al. [51], VFL-Market [49]
  - **Protocol 3 (P-3) Derived Data Based**: Wang [58], Wang et al. [28], VF-PS [43], MMVFL [56], CRDP-FL [57], Fed-EINI [61], FedValue [44]

- **Contribution Evaluation Methods**
  - **Shapley Value Based**: Wang [58], Wang et al. [28], Zhang et al. [51], VerFedFL [46], FedValue [44], DIG-FL [47]
  - **Leave-one-out Based**: HI-GAS [29], DIG-FL [47], Khan et al. [48], VFL-Market [49]
  - **Individual Based**: FedSVM, FedRF [53], VF-PS [43], π_{SS-FS}, π_{H-FS} [52], MI-VFL [60]
  - **Interaction Based**: LESS-VFL [50], VFLFS [54], MMVFL [56], CRDP-FL [57], EVFL [59], PSO-EVFFS [55], Fed-EINI [61], Falcon [62]

- **Tasks Involving Contribution Evaluation**
  - **Feature Selection**: VFLFS [54], LESS-VFL [50], VF-PS [43], FedSDG-FS [45], π_{SS-FS}, π_{H-FS} [52], PSO-EVFFS [55], CRDP-FL [57]
  - **Interpretable VFL**: Wang [58], Fed-EINI [61], Falcon [62], MI-VFL [60], EVFL [59]
  - **Incentive Mechanism Design**: FedValue [44], Wang et al. [28], DIG-FL [47], Zhang et al. [51]
  - **Payment Allocation**: Khan et al. [48], VFL-Market [49]