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## dsp23-project

## For this assignment you need to submit a PDF document with:

- 1. Your group name AND member list (the group specifications were defined in the class)
  - 1. Group Name: Data Transformer team
  - 2. Members:
    - Mamadou Mouctar Baldé
    - Thiago Amado Costa
    - Laurids Radtke
- 2. A description of your project subject with the following information:
  - 3. The chosen use case: House prices prediction
  - 4. The link and description of the dataset you'll be using for the use case. You should not submit the dataset itself but a link
    - Link of the train set: https://drive.google.com/file/d/1xM52xXHPGeawkzqQS8sJOHQGaxqHkaH/view?usp=sharing
    - Link of the test set:
       https://drive.google.com/file/d/1UmwFn74BPTCPG6xhYzSIPdmnTZENzzHY/view?
       usp=sharing
    - Description: 1. MSSubClass: Identifies the type of dwel 2. MSZoning: Identifies the general
      zoning classification of the sale. 3. LotFrontage: Linear feet of street connected to property 4.
       LotArea: Lot size in square feet 5. Street: Type of road access to property
      - 6. Alley: Type of alley access to property
      - 7. LotShape: General shape of property
      - 8. LandContour: Flatness of the property 9. Utilities: Type of utilities available 10. LotConfig: Lot configuration 11. LandSlope: Slope of property 12. Neighborhood: Physical locations within Ames city limits 13. Condition1: Proximity to various conditions 14. Condition2: Proximity to various conditions (if more than one is present) 15. BldgType: Type of dwelling 16. HouseStyle: Style of dwelling 17. OverallQual: Rates the overall material and finish of the house 18. OverallCond: Rates the overall condition of the house 19. YearBuilt: Original construction date 20. YearRemodAdd: Remodel date (same as construction date if no remodeling or additions) 21. RoofStyle: Type of roof 22. RoofMatl: Roof material 23. Exterior1st: Exterior covering on house 24. Exterior2nd: Exterior covering on house (if more than one material) 25. MasVnrType: Masonry veneer type 26. MasVnrArea: Masonry veneer area in square feet 27. ExterQual: Evaluates the quality of the material on the exterior 28. ExterCond: Evaluates the present condition of the material on the exterior 29. Foundation: Type of foundation 30. BsmtQual: Evaluates the height of the basement 31. BsmtCond: Evaluates the general condition of the basement 32. BsmtExposure: Refers to walkout or

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garden level walls 33. BsmtFinType1: Rating of basement finished area 34. BsmtFinSF1: Type 1 finished square feet 35. BsmtFinType2: Rating of basement finished area (if multiple types) 36. BsmtFinSF2: Type 2 finished square feet 37. BsmtUnfSF: Unfinished square feet of basement area 38. TotalBsmtSF: Total square feet of basement area 39. Heating: Type of heating 40. Heating QC: Heating quality and condition 41. Central Air: Central air conditioning 42. Electrical: Electrical system 43. 1stFlrSF: First Floor square feet 44. 2ndFlrSF: Second floor square feet 45. LowQualFinSF: Low quality finished square feet (all floors) 46. GrLivArea: Above grade (ground) living area square feet 47. BsmtFullBath: Basement full bathrooms 48. BsmtHalfBath: Basement half bathrooms 49. FullBath: Full bathrooms above grade 50. HalfBath: Half baths above grade 51. Bedroom: Bedrooms above grade (does NOT include basement bedrooms) 52. Kitchen: Kitchens above grade 53. KitchenQual: Kitchen quality 54. TotRmsAbvGrd: Total rooms above grade (does not include bathrooms) 55. Functional: Home functionality (Assume typical unless deductions are warranted) 56. Fireplaces: Number of fireplaces 57. FireplaceQu: Fireplace quality 58. GarageType: Garage location 59. GarageYrBlt: Year garage was built 60. GarageFinish: Interior finish of the garage 61. GarageCars: Size of garage in car capacity 62. GarageArea: Size of garage in square feet 63. GarageQual: Garage quality 64. GarageCond: Garage condition 65. PavedDrive: Paved driveway 66. WoodDeckSF: Wood deck area in square feet 67. OpenPorchSF: Open porch area in square feet 68. EnclosedPorch: Enclosed porch area in square feet 69. 3SsnPorch: Three season porch area in square feet 70. ScreenPorch: Screen porch area in square feet 71. PoolArea: Pool area in square feet 72. PoolQC: Pool quality 73. Fence: Fence quality 74. MiscFeature: Miscellaneous feature not covered in other categories 75. MiscVal: \$Value of miscellaneous feature 76. MoSold: Month Sold (MM) 77. YrSold: Year Sold (YYYY) 78. SaleType: Type of sale 79. SaleCondition: Condition of sale

An architecture diagram (what we already did in the class but you need to choose the technologies for each component: eg: FastAPI for the model serving and streamlit for the webapp

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