{ "cells": [ { "cell type": "code", "execution count": 5, "id": "cb3fd4e0", "metadata": {}, "outputs": [ { "name": "stdout", "output type": "stream", "text": [ " W R AB H 2B 3B HR BB SO SB RA ER ERA CG SHO \\\n", "0 95 724 5575 1497 300 42 139 383 973 104 641 601  $3.73\ 2\ 8\ n$ ", "1 83 696 5467 1349 277 44 156 439 1264 70 700 653 4.07 2 12 \n", "2 81 669 5439 1395 303 29 141 533 1157 86 640 584 3.67 11 10 \n", "3 76 622 5533 1381 260 27 136 404 1231 68 701 643 3.98 7 9 \n", "4 74 689 5605 1515 289 49 151 455 1259 83 803 746 4.64 7 12 \n", "\n", " SV E \n", "0 56 88 \n", "1 45 86 \n", "2 38 79 \n", "3 37 101 \n", "4 35 86 \n" ] } ], "source": [ "import pandas as pd\n", "import numpy as np\n", "import matplotlib.pyplot as plt\n", "import seaborn as sns\n", "from sklearn.model selection import train test split, cross val score, GridSearchCV\n", "from sklearn.linear model import LinearRegression\n", "from sklearn.tree import DecisionTreeRegressor\n", "from sklearn.ensemble import RandomForestRegressor, GradientBoostingRegressor\n", "from sklearn.svm import SVR\n", "from sklearn.metrics import mean absolute error, mean squared error, r2 score\n", "from sklearn.preprocessing import StandardScaler\n", "import warnings\n", "warnings.filterwarnings('ignore')\n", "\n", "url = 'https://raw.githubusercontent.com/FlipRoboTechnologies/ML -Datasets/main/Baseball/baseball.csv'\n", "data = pd.read csv(url)\n", "print(data.head())\n" ] }, { "cell type": "code", "execution count": 6, "id": "e3863c4c", "metadata": {}, "outputs": [ { "data": { "text/html": [ " \n", "