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Data Source: <https://www.data.gov.uk/dataset/14fb9401-a320-4633-b1f6-b82f77c5d84b/average-hourly-pay-by-ethnicity>

**Link to Github:** [**https://github.com/Ufelicita/visualisation**](https://github.com/Ufelicita/visualisation)

**Visualisation 1: Trend in (Median) Hourly Rates for Three Ethnicities**

A graph with lines and dots

Description automatically generated

The line plot is good in repesenting the the trend in the avarage hourly pay rate of three Ethnicities-Black , whites and asians. The graph suggests a positive trend since 2018 for the three ethnicities with the asians having the highest pay rise since 2019. Before this year the rate for the Asians and blacks increased slower than that of the whites .

**Visualisation 2: Comparisons of Average Hourly Rates for Combined White, Black and Asian Ethnicities**

A graph of numbers and bars

Description automatically generated with medium confidence

The bar chart vividly represents the comparison of the average hourly pay rate of the combined white, blacks and Asians ethnicities from 2013 to 2021 The whites and the Asians have consistently had higher pay rates than the blacks from 2015. The blacks only got an insignificant increase in 2013 and 2014. On the other hand, the whites have enjoyed have been paid higher from 2013 to 2021 than the other ethnicities except in 2018 when they were paid same with the Asians .

**Visualisation 3: Distribution of Average Hourly Rates for Ethnicities in UK**

A graph of different ethnicities

Description automatically generated

The box plot gives a visual indication of the distribution of a data based on its five-number summary of data points: the minimum, first quartile [Q1], median, third quartile [Q3], and maximum. It is best suited for visualizing the dispersion of a dataset. It is observed from the graph that the whites earn more on the average as shown in the higher median of the White ethnicity Box. However, the outlier shown indicates that some individuals who are white earn significantly higher than their other white contemporaries. Also, compared to the rest of the ethnicities, the blacks have less variability in earnings, while the Asians have the most.