

Preliminary questions this analysis could answer

Skills penetration questions:

- Which skills are growing and for which occupations?
- How are skills being adopted across industries?
- What are the main trends for data science skills?

Variable list:

country_name | wb_region | income_group | skill_group_category | skill_group_name | skill_group_penetration

Based on skills penetration metric, identify the mix of business, technical, soft and industry-specific skills of the different occupation groups. The analysis can take advantage of the time coverage (2015 – 2019) of the data to identify trends in terms of skills penetration growth for different skills and occupations captured by the data.

The skills penetration data includes the industry_name and ISIC_section_name variables featured in the Industry Employment dataset, which allows for sectoral aggregation of multiple industries. To the extent possible, adding a sectoral breakdown would allow for a more targeted and granular analysis of skills penetration across sectors and industries, adding significant value to inform provision of up-to-date labor market information as well as to inform skills, migration and career development decisions.

Skills Penetration Metric – LinkedIn Description

The Skill Penetration metric looks at how many skills from each of LinkedIn's skill groups* appear among the top 30 skills for each occupation in an industry. The 50,000 skills in LinkedIn's taxonomy are categorized into 249 skill groups. For example, if 3 of 30 skills for Data Scientists in the Information Services industry fall into the Artificial Intelligence skill group, Artificial Intelligence has a 10% penetration for Data Scientists in Information Services. Caveats: These penetration rates are averaged across occupations to derive the industry averages reported above. It is likely this metric is best at capturing skill penetration across tradable and knowledge-intensive sectors. For example, it may underestimate the adoption of AI in Manufacturing, since LinkedIn members are less likely to be in this sector compared to others.

Mapping of LinkedIn Skill Taxonomy:

<i>skill_group_name</i>	<i>skill_group_category</i>
<i>Mathematics</i>	<i>Specialized Industry Skills</i>
<i>Reading Comprehension</i>	<i>Specialized Industry Skills</i>
<i>Writing</i>	<i>Soft Skills</i>
<i>Economics</i>	<i>Business Skills</i>
<i>Data Science</i>	<i>Disruptive Tech Skills</i>