



Framework & Methodology Document

This document outlines Draup's Methodology behind Mapping of Job Roles, Skills Extraction, curating Skills Taxonomy, .

July 2025

Draup's Approach – Skills Taxonomy: Draup's approach to curating a skill-based taxonomy integrates both core and soft skills. This taxonomy is aligned with major labor board classifications, including BLS, ESCO, and others, ensuring comprehensive and standardized skill mapping across industries



Occupation
Job occupation refers to a specific work or profession that an individual engages in to earn a living. It often involves a set of related tasks and responsibilities within a particular field or industry. Job occupations have been categorized based on industry-standard classification and have drawn inspiration from the O*NET mapping by the Bureau of Labor Statistics (BLS).

Job Family
A high-level categorization of roles that share common functions, responsibilities, and skill sets within an organization.

Job Role
A specific designation for a role that reflects its primary responsibilities, skill requirements, and career level within the organization.

Job Role Levels
Represents the hierarchical position of a role within an organization, indicating scope of responsibility, decision-making authority, and expected experience

Workload
A decomposed summary based on competencies and responsibilities involves breaking down the tasks and duties required for a role into specific competencies, skill sets, and responsibilities, enabling a detailed understanding and effective management of workload distribution, resource allocation, and performance evaluation within the organization.

Tasks
Specific activities and duties performed within a job role that contribute to achieving business objectives and fulfilling job responsibilities

Skills
Based on a study of Job Responsibilities, skills are identified that are critical for the day-to-day responsibilities of roles across industries. This was further augmented by deep research by Draup experts into the core responsibilities and workloads identified. Draup also references research papers, forums, and other sources to identify emerging skills.

Root Skills

Root Skills are the most foundational and essential capabilities required for a role, serving as the foundation for mastering all specialized and advanced skills.

Core Skills

Core skills are defined as the skills critical for the day-to-day responsibilities of various job roles across industries.

Soft Skills

Soft skills are personal attributes that relate to how an individual interacts with others and approaches their work.

Tech Stack

Tech stacks are a set of software tools and technologies used to build and operate applications or services.

Ecosystem

Labor Market Demographics

Diversity Metrics

Industry Trends

Quality of Life Metrics

Global Market Competitiveness

Economic Trends

Governance Factors

Talent Demand

Real-time, Global, Deduplicated Jobs

Job Postings from Employer Websites, Job Boards & Aggregators, ATS Providers, Industry & Government Portals

Jobs Classified by: Job Titles, Roles, Families, Occupations, Functions, Workloads, Locations, Experience Levels, Skills, Tech Stack, Education, Industry, Job Type

Talent Cost

Median Base Pay by Role, Location & Employer

Talent Intelligence by Location

Talent Insights by Occupation, Job Families, Job Roles, Skills across MSAs, Countries & Regions

Talent Supply

Talent Demand

Hiring Difficulty

Median Base Pay

Top Employers

Core & Soft Skills

Technology Stack

Talent Diversity

Industry & Experience Distributions

Talent Movement

Top Competitors

Fresh Talent Insights

Talent Supply & Acquisition

Global, GDPR Compliant, Professional Profiles

Deep Interpreted Insights on Professionals

Professionals Classified by: Job Titles, Roles, Families, Occupations, Functions, Workloads, Locations, Experience Levels, Skills, Tech Stack, Education, Industry, Job Type, Gender, Work History, Ethnicity

University Talent

Global Universities

Enrollments & Graduates

Degrees, Majors, Gender & Ethnicity

Academic Research Index (ARI)

Peer & Competitive Intelligence

Competitor Battlecards

Talent Flow Insights

Peer Skills Architecture

Real-time Signals

Workforce Distribution by Locations & Function

Priorities & Intentions

Hiring Activity & Trends

Contingent Workforce Partners

Transformative Skills Architecture & Career Pathways

Core Skills, Root Skills, Soft Skill, & Tech Stacks

Reskilling Propensity Index (RPI)

Skill Gaps & Insights

Career Path Transitions

Courses & Certifications



Job Architecture Mapping

Draup shall undertake a comprehensive mapping of TE Connectivity's job roles to Draup's proprietary global role taxonomy, employing **advanced machine learning models** to ensure robust alignment with prevailing industry benchmarks and to establish a scalable, skills-based job architecture framework across the enterprise.

Skills Extraction

Leveraging Draup's proprietary **Natural Language Processing (NLP) engines**, documented job descriptions for each mapped role shall be systematically deconstructed to extract, normalize, and validate the underlying skills corpus, thereby enabling a granular understanding of functional, technical, and behavioural skill requirements.

Curating Skills Taxonomy

Draup shall curate a rigorously structured skills taxonomy for each identified role, categorizing the validated skills inventory into **Root Skills, Core Skills, Soft Skills, and Technology Stacks**. This unified taxonomy shall serve as the foundational layer for standardizing skill definitions, competency frameworks, and benchmarking exercises across TE Connectivity's talent ecosystem.

Identification of Emerging, Futuristic Skills

Drawing on Draup's proprietary corpus of 850+ million global job descriptions and associated labor market signals, advanced trend analytics shall be deployed to surface emerging and future-relevant skills for each mapped role over a rolling three-year horizon. This insight shall inform the design of targeted upskilling pathways and enable TE Connectivity to future-proof its workforce capabilities proactively.

I. Job Architecture Mapping

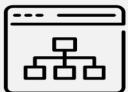
Job Architecture Mapping

Draup employs **advanced machine learning models** such as **Sentence Transformer (GTE-small)** for job titles and the **Semantic Model (BGE-base-en-v1.5)** for job descriptions to semantically map TE Connectivity's job architecture to Draup's standardized global role taxonomy.

Input from TE

Methodology

Output from Draup



Receiving Job Architecture

Required to align TE Connectivity's internal roles with Draup's standardized taxonomy for accurate skills mapping and benchmarking

Includes

Exchange of TE Connectivity Job Architecture across Job Families, Job Roles, Job Titles, and other relevant documentation as Job Profiles, and Job Descriptions

Purpose

Enables precise alignment between TE Connectivity's internal structure and Draup's industry-aligned role taxonomy. This forms the foundation for scalable skills mapping, role clustering, peer benchmarking, and downstream analytics

Draup employs advanced machine learning models to standardize job titles and descriptions by semantically mapping them to its proprietary job role taxonomy. Titles are embedded using GTE-small, while job descriptions are processed through BGE-base-en-v1.5 to extract key entities and contextual meaning. This enables robust alignment with prevailing industry benchmarks and supports the development of a scalable, skills-based job architecture framework across the enterprise. The system returns top-matched job roles along with similarity and confidence scores to ensure precision and transparency.

Job Title to Job Role Mapping

Sentence transformer (GTE-small)

Job title embeddings

Similarity scoring with standardized roles

Job Description to Job Role Mapping

Semantic model (BGE-base-en-v1.5)

Contextual Matching

Entity Extraction (Skills, Tools, etc.)

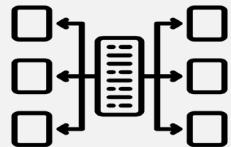
TE Connectivity Title	Draup Role
Talent Acquisition Specialist III	Talent Acquisition Specialist
Sr R&D/Product Dvl Engineer	Product Engineer
R&D/Product Dvl Engineer ii	R&D Engineer
Sr Project Manager Engineer	Project Manager
Sr Manufacturing Engineer	Manufacturing Engineer
Sr Mfg & Process Dvl Engineer	Process Engineer
Assembly Operator I	Assembly Operator
Account Manager	Account Manager

II. Skills Extraction

Skills Extraction

Draup's proprietary **Named Entity Recognition (NER) model** leverages advanced **Natural Language Processing (NLP)** techniques to extract, classify, and standardize entities from a repository of over 850 million global job descriptions.

Input from TE



Skills Inventory

Helps in mapping existing TE Connectivity skills to Draup's skill library for comprehensive coverage and analysis

Includes

Any available list of existing skills tagged per role, if maintained in internal platforms or HRIS. If available, any internal competence framework/proficiency framework

Purpose

Allows Draup to better understand TE Connectivity's current skills definitions and Draup's standardized skills library, allowing Draup to map, and analyze skill coverage, gaps, and redundancies

Methodology

Utilizing TE Connectivity's Job Description Data

Understanding Language & Context

Identification of top skills

Categorizing skills into Draup Skills Clusters

Identification of Root Skill, Soft Skill, and Tech Stack

Draup Skills Taxonomy Finalization

TE Connectivity SME Review

Draup Expert's Validation

Finalization of Taxonomy

TE Connectivity's Skills Taxonomy Finalization

JD Extraction
Skill Extraction
Skill Categorization

Intermediate Output from Draup

Talent Acquisition Specialist

Recruitment	Workforce Planning
Talent Operations	Employee Referrals
Stakeholder Management	University Relations
Candidate Sourcing	Talent Mapping
Employer Branding	Offer Management
Hiring Metrics	Interview Process Management
Recruitment Marketing	Onboarding Process Management
Communication	Negotiation
Influencing	Strategic Thinking
LinkedIn Talent Insights	Microsoft Office Suite

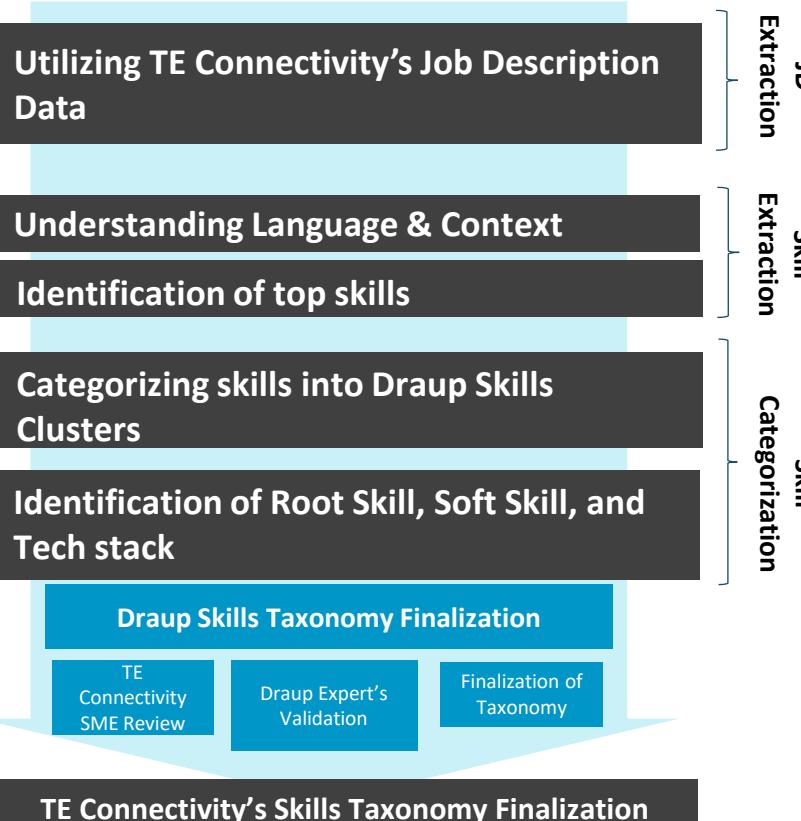
III. Curating Skills Taxonomy

Curating Skills Taxonomy

Draup shall curate a rigorously structured skills taxonomy for each identified role, categorizing the validated skills inventory into **Root Skills, Core Skills, Soft Skills, and Technology Stacks**. This unified taxonomy shall serve as the foundational layer for standardizing skill definitions, competency frameworks, and benchmarking exercises across TE Connectivity's talent ecosystem.

Methodology

Output from Draup

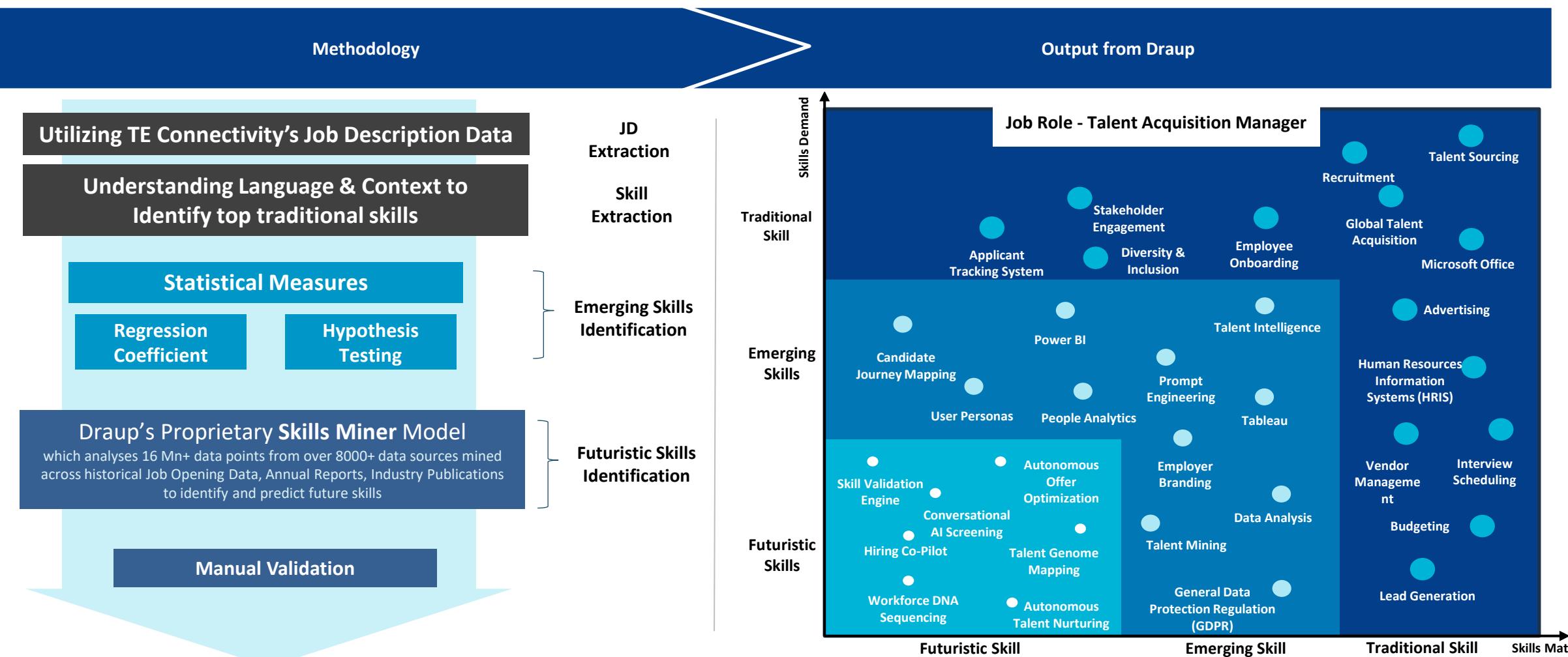


TE Connectivity Title	Draup Role	Root Skill 1	Root Skill 2	Core Skill 1	Core Skill 2	Soft Skill 1	Soft Skill 2	Tech Stack 1	Tech Stack 2
Talent Acquisition Specialist III	Talent Acquisition Specialist	Recruitment	Workforce Planning	Employee Referrals	Stakeholder Management	Influencing	Strategic Thinking	LinkedIn Talent Insights	Microsoft Office Suite
R&D/Product Dvl Engineer ii	R&D Engineer	Prototyping	Feasibility Studies	Product Development	Package Testing	Methodical	Innovation	Autocad	Solidworks
Sr Project Manager Engineer	Project Manager	Project Management	Project Planning	Portfolio Management	Risk Management	Team Work	Time Management	Atlassian Jira	Microsoft Power Bi
Sr Manufacturing Engineer	Manufacturing Engineer	Machining	Continuous Improvement Management	Project Management	Six Sigma	Result Driven	Analytical Thinking	Solidworks	Autocad
Assembly Operator I	Assembly Operator	Soldering	Visual Inspection	Microscopy	5s Methodology	Evaluation	Attention To Detail	Autocad	Minitab

IV. Emerging, Futuristic Skills Identification

Identification of Emerging, Futuristic Skills

Leveraging Draup's proprietary corpus of 800+ million global job descriptions and associated labor market signals, **advanced trend analytics** shall be deployed to identify Emerging Skills for each mapped role, based on demand signals observed over a rolling **three-year horizon**. In parallel, Draup's Skills Miner model shall be used to surface Futuristic Skills — capabilities likely to gain critical relevance in the near future.





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