



Model Curriculum

QP Name: AI - Data Quality Analyst

QP Code: SSC/Q8101

QP Version: 3.0

NSQF Level: 5

Model Curriculum Version: 3.0

IT-ITeS Sector Skill Council || IT-ITeS Sector Skill Council, NASSCOM, Plot No - 7, 8, 9 & 10, 3rd Floor,
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Training Parameters

Sector	IT-ITeS
Sub-Sector	Future Skills
Occupation	Artificial Intelligence & Big Data Analytics
Country	India
NSQF Level	5
Aligned to NCO/ISCO/ISIC Code	NCO-2015/252.NIL
Minimum Educational Qualification and Experience	<p>* Relevant Field- AI, Computer Science, IT</p> <p>**The relevant experience would include work, internship and apprenticeship undertaken post completion of relevant educational qualification</p> <p>Completed 2nd year of UG (UG Diploma) (UG Program of 3 or 4 years) (Engineering/ Science)</p> <p>OR</p> <p>Completed 2nd year of diploma (after 12th)</p> <p>OR</p> <p>Previous relevant Qualification of NSQF Level 4 with 3 Years of relevant experience** in relevant field*</p>
Pre-Requisite License or Training	NA
Minimum Job Entry Age	22 years
Last Reviewed On	03/05/2023
Next Review Date	03/05/2026
NSQC Approval Date	03/05/2023
QP Version	3.0
Model Curriculum Creation Date	03/05/2023
Model Curriculum Valid Up to Date	03/05/2026
Model Curriculum Version	3.0
Minimum Duration of the Course	480 hours

Maximum Duration of the Course	480 hours
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Program Overview

This section summarizes the end objectives of the program along with its duration.

Training Outcomes

At the end of the program, the learner should have acquired the listed knowledge and skills.

- Describe the use cases of AI & Big Data Analytics in various industries and define the various roles under this occupation
- Define basic statistical concepts used for analysis such as measures of central tendency like mean, median, or mode, or statistical anomalies like missing values, bias, or outliers.
- Use tools such as statistical IDEs, or software packages, libraries and frameworks for importing and pre-processing data.
- Apply different methods to import data from various file formats.
- Apply different methods to pre-process data such as removing missing values or transforming incorrect data types.
- Plan schedules and timelines based on the nature of work.
- Demonstrate effective communication and work collaboration with colleagues.
- Use different approaches to effectively manage and share data and information.
- Develop strong relationships at the workplace through effective communication and conflict management.
- Interpret client requirements clearly and deliver them to improve client satisfaction.
- Identify best practices to maintain an inclusive, environmentally sustainable workplace

Compulsory Modules

The table lists the modules and their duration corresponding to the Compulsory NOS of the QP.

NOS and Module Details	Theory Duration (In Hours)	Practical Duration (In Hours)	On-the-Job Training Duration (Mandatory)	On-the-Job Training Duration (Recommended)	Total Duration (In Hours)
<i>Module 1 (Bridge Module): Artificial Intelligence & Big Data Analytics – An Introduction</i>	04:00	08:00	00:00	00:00	12:00
<i>Module 2 (Bridge Module): Basic Statistical Concepts</i>	08:00	16:00	00:00	00:00	24:00
<i>Module 3 (Bridge Module): Statistical Tools and Usage</i>	08:00	16:00	00:00	00:00	24:00
SSC/N8101 – Import data as per specifications. NOS Version No. 2 NSQF Level 5	40:00	50:00	00:00	00:00	90:00
Module 4: Importing Data	40:00	50:00	00:00	00:00	90:00
SSC/N8102 – Preprocess data as per specifications NOS Version No. 2 NSQF Level 5	50:00	100:00	00:00	00:00	150:00
Module 5: Preprocessing Data	50:00	100:00	00:00	00:00	150:00
SSC/N9014 Maintain an inclusive, environmentally sustainable workplace NOS Version No. 1 NSQF Level 5	10:00	20:00	00:00	00:00	30:00
Module 6: Inclusive and environmentally sustainable workplaces	10:00	20:00	00:00	00:00	30:00
DGT/VSQ/N0102 Employability Skill 60 Hours NOS Version No.1 NSQF Level 4	24:00	36:00	00:00	00:00	60:00
Module 7: Introduction to Employability Skills	00:30	01:00	00:00	00:00	01.50
Module 8: Constitutional values - Citizenship	00:30	01:00	00:00	00:00	01.50
Module 9: Becoming a Professional in the 21st Century	01:00	01:30	00:00	00:00	02.50
Module 10: Basic English Skills	04:00	06:00	00:00	00:00	10.00
Module 11: Career Development & Goal Setting	01:00	01:00	00:00	00:00	02.00
Module 12: Communication Skills	02:00	03:00	00:00	00:00	05.00

Module 13: Diversity & Inclusion	01:00	01:30	00:00	00:00	02.50
Module 14: Financial and Legal Literacy	02:00	03:00	00:00	00:00	05.00
Module 15: Essential Digital Skills	04:00	06:00	00:00	00:00	10.00
Module 16: Entrepreneurship	03:00	04:00	00:00	00:00	07.00
Module 17: Customer Service	02:00	03:00	00:00	00:00	05.00
Module 18: Getting ready for apprenticeship & Jobs	03:00	05:00	00:00	00:00	08.00
OJT	00:00	00:00	90:00	00:00	90:00
Total Duration	144:00	246:00	90:00	00:00	480:00

Module Details

Module 1: Artificial Intelligence & Big Data Analytics – An Introduction

Bridge Module

Terminal Outcomes:

- Explain fundamental use cases of AI/Bigdata, types of AI systems and types of roles under this occupation

Duration (In Hours): 04:00	Duration (In Hours): 08:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • Explain the relevance of AI & Big Data Analytics for the society • Explain the various use-cases of AI & Big Data in the industry • Define “general” and “narrow” AI • Describe the fields of AI such as image processing, computer vision, robotics, NLP, etc. 	<ul style="list-style-type: none"> • Outline a career map for roles in AI & Big Data Analytics • Analyse the differences between key terms such as Supervised Learning, Unsupervised Learning and Deep Learning
Classroom Aids:	
<ul style="list-style-type: none"> • Whiteboard and Markers • Chart paper and sketch pens • LCD Projector and Laptop for presentations 	
Tools, Equipment and Other Requirements :	
Labs equipped with the following: <ul style="list-style-type: none"> • PCs/Laptops • Internet with Wi-Fi (Min 2 Mbps Dedicated) 	

Module 2: Basic Statistical Concepts

Bridge Module

Terminal Outcomes:

- Distinguish between various basic statistical concepts
- Apply different statistical techniques

Duration (In Hours): 8:00	Duration (In Hours): 16:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • Distinguish between different probability distributions such as Normal, Poisson, Exponential, Bernoulli, etc. • Identify correlation between variables using scatterplots and other graphical techniques 	<ul style="list-style-type: none"> • Apply basics of descriptive statistics including measures of central tendency such as mean, median and mode • Apply different correlation techniques such as Pearson's Correlation Coefficient, Methods of Least Squares etc. • Apply different techniques for regression analysis including linear, logistic, ridge, lasso, etc. • Use hypothesis testing to draw inferences and measure statistical significance
Classroom Aids:	
<ul style="list-style-type: none"> • Whiteboard and Markers • Chart paper and sketch pens • LCD Projector and Laptop for presentations 	
Tools, Equipment and Other Requirements :	
<p>Labs equipped with the following:</p> <ul style="list-style-type: none"> • PCs/Laptops • Internet with Wi-Fi (Min 2 Mbps Dedicated) <p>Tools and Programming Languages:</p> <ul style="list-style-type: none"> • IDEs such as RStudio, Jupyter Notebooks, etc. • Software libraries such as NumPy and Pandas, etc. • Statistical software tool such as IBM SPSS Statistics, SataCorp Stata, Mathworks, etc. 	

Module 3: Statistical Tools and Usage

Bridge Module

Terminal Outcomes:

- Assess the various types of statistical tools available
- Assess the various types of statistical packages available

Duration (In Hours): 8:00	Duration (In Hours): 16:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • Explain the basics of using statistical software packages and IDEs such as RStudio, Jupyter Notebooks 	<ul style="list-style-type: none"> • Apply basic functions and libraries present in statistical software packages and IDEs • Use statistical packages, frameworks and libraries such as NumPy and Pandas for developing applications
Classroom Aids:	
<ul style="list-style-type: none"> • Whiteboard and Markers • Chart paper and sketch pens • LCD Projector and Laptop for presentations 	
Tools, Equipment and Other Requirements :	
<p>Labs equipped with the following:</p> <ul style="list-style-type: none"> • PCs/Laptops • Internet with Wi-Fi (Min 2 Mbps Dedicated) <p>Tools and Programming Languages:</p> <ul style="list-style-type: none"> • IDEs such as RStudio, Jupyter Notebooks, etc. • Software libraries such as NumPy and Pandas, etc. • Statistical software tool such as IBM SPSS Statistics, SataCorp Stata, Mathworks, etc. 	

Module 4: Importing Data

Mapped to SSC/N8101 (Version No. 1)

Terminal Outcomes:

- Demonstrate reading and importing data from various file formats
- Perform data importing from various internal and external data sources
- Analyze the various uses of metadata

Duration (In Hours): 40:00	Duration (In Hours): 50:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • Identify the type of data, volume of data, and variables required for the analysis • Distinguish between different types of data such as numerical, categorical, etc. • Identify common open and paid data sources • Discuss the uses and characteristics of different open source and paid data sources • Describe the purpose of metadata • Describe various Data validation tools and processes 	<ul style="list-style-type: none"> • Demonstrate the process of capturing various types of data such as enterprise data, consumer data etc. from various data sources • Conduct the process of importing data from both public and private databases or data stores and store it in datasets or data frames • Organize and map metadata as per the needs of the analysis • Perform data profiling for data quality assessment and validation
Classroom Aids:	
<ul style="list-style-type: none"> • Whiteboard and Markers • Chart paper and sketch pens • LCD Projector and Laptop for presentations 	
Tools, Equipment and Other Requirements :	
<p>Labs equipped with the following:</p> <ul style="list-style-type: none"> • PCs/Laptops • Internet with Wi-Fi (Min 2 Mbps Dedicated) <p>Tools and Programming Languages:</p> <ul style="list-style-type: none"> • Data Management tools such as MS-Excel, MySQL, etc. • Analytical and BI software such as Oracle Business Intelligence (Enterprise Edition), IBM Cognos, SAS, IBM SPSS Statistics, etc. 	

Module 5: Pre-processing Data

Mapped to SSC/N8102 (Version No. 1)

Terminal Outcomes:

- Explain the fundamentals of pre-processing data
- Demonstrate the analysis of unprocessed data
- Evaluate different techniques to process data

Duration (In Hours): 50:00	Duration (In Hours): 100:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • Differentiate the unprocessed and processed data • Explain the impact of unprocessed data on subsequent analytical operations • Describe the various anomalies that may be found in unprocessed data (e.g. missing values, incorrect data types, and redundant data) • Explain the Data Normalization techniques and concepts • Describe the properties of different tools that can be used to validate the pre-processed data 	<ul style="list-style-type: none"> • Analyze unprocessed data to discover anomalies such as missing values, incorrect data types, etc. • Apply different techniques and functions to clean unprocessed data including removing missing values, transforming incorrect data types, etc. • Apply different approaches to normalize datasets such as feature scaling etc. • Apply appropriate tools and techniques to perform pre-processed data validation
Classroom Aids:	
<ul style="list-style-type: none"> • Whiteboard and Markers • Chart paper and sketch pens • LCD Projector and Laptop for presentations 	
Tools, Equipment and Other Requirements :	
<p>Labs equipped with the following:</p> <ul style="list-style-type: none"> • PCs/Laptops • Internet with Wi-Fi (Min 2 Mbps Dedicated) <p>Tools and Programming Languages:</p> <ul style="list-style-type: none"> • Data Management tools such as MS-Excel, MySQL, etc. • Analytical and BI software such as Oracle Business Intelligence (Enterprise Edition), IBM Cognos, SAS, IBM SPSS Statistics, etc. 	

Module 6: Inclusive and environmentally sustainable workplaces

Mapped to SSC/N9014 (Version No. 1)

Terminal Outcomes:

- Illustrate sustainable practices at workplace for energy efficiency and waste management
- Apply different approaches to maintain gender equality and increase inclusiveness for PwD

Duration (In Hours): 10:00	Duration (In Hours): 20:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • Describe different approaches for efficient energy resource utilisation and waste management • Describe the importance of following the diversity policies • Identify stereotypes and prejudices associated with people with disabilities and the negative consequences of prejudice and stereotypes • Discuss the importance of promoting, sharing and implementing gender equality and PwD sensitivity guidelines at organization level 	<ul style="list-style-type: none"> • Practice the segregation of recyclable, non-recyclable and hazardous waste generated • Demonstrate different methods of energy resource use optimization and conservation • Demonstrate essential communication methods in line with gender inclusiveness and PwD sensitivity
Classroom Aids:	
<ul style="list-style-type: none"> • Whiteboard and Markers • Chart paper and sketch pens • LCD Projector and Laptop for presentations 	
Tools, Equipment and Other Requirements :	
Labs equipped with the following: <ul style="list-style-type: none"> • PCs/Laptops • Internet with Wi-Fi (Min 2 Mbps Dedicated) 	

Module 7: Introduction to Employability Skills

Mapped to NOS DGT/VSQ/N0102 (Version No. 1)

Key Learning Outcomes:

- Discuss the Employability Skills required for jobs in various industries
- List different learning and employability related GOI and private portals and their usage

Duration :1.5 Hours (0.5 Theory + 1 Practical)

Module 8: Constitutional values - Citizenship

Mapped to NOS DGT/VSQ/N0102 (Version No. 1)

Key Learning Outcomes:

- Explain the constitutional values, including civic rights and duties, citizenship, responsibility towards society and personal values and ethics such as honesty, integrity, caring and respecting others that are required to become a responsible citizen
- Show how to practice different environmentally sustainable practices

Duration:1.5 Hours (0.5 Theory + 1 Practical)

Module 9: Becoming a Professional in the 21st Century

Mapped to NOS DGT/VSQ/N0102 (Version No. 1)

Key Learning Outcomes:

- Discuss importance of relevant 21st century skills.
- Exhibit 21st century skills like Self-Awareness, Behaviour Skills, time management, critical and adaptive thinking, problem-solving, creative thinking, social and cultural awareness, emotional awareness, learning to learn etc. in personal or professional life.
- Describe the benefits of continuous learning

Duration:2.5 Hours (1 Theory + 1.5 Practical)

Module 10: Basic English Skills

Mapped to NOS DGT/VSQ/N0102 (Version No. 1)

Key Learning Outcomes:

- Show how to use basic English sentences for everyday conversation in different contexts, in person and over the telephone
- Read and interpret text written in basic English

- Write a short note/paragraph / letter/e -mail using basic English

Duration: 10 Hours (4 Theory + 6 Practical)

Module 11: Career Development and Goal Setting

Mapped to NOS DGT/VSQ/N0102 (Version No. 1)

Key Learning Outcomes:

- Create a career development plan with well-defined short- and long-term goals

Duration: 2 Hours (1 Theory + 1 Practical)

Module 12: Communication skills

Mapped to NOS DGT/VSQ/N0102 (Version No. 1)

Key Learning Outcomes:

- Demonstrate how to communicate effectively using verbal and nonverbal communication etiquette.
- Explain the importance of active listening for effective communication
- Discuss the significance of working collaboratively with others in a team

Duration: 5 Hours (2 Theory + 3 Practical)

Module 13: Diversity and Inclusion

Mapped to NOS DGT/VSQ/N0102 (Version No. 1)

Key Learning Outcomes:

- Demonstrate how to behave, communicate, and conduct oneself appropriately with all genders and PwD
- Discuss the significance of escalating sexual harassment issues as per POSH

Duration: 2.5 Hours (1 Theory+ 1.5 Practical)

Module 14: Financial and Digital Literacy

Mapped to NOS DGT/VSQ/N0102 (Version No. 1)

Key Learning Outcomes:

- Outline the importance of selecting the right financial institution, product, and service
- Demonstrate how to carry out offline and online financial transactions, safely and securely

Duration: 5 Hours (2 Theory+ 3 Practical)

Module 15: Essential Digital Skills

Mapped to NOS DGT/VSQ/N0102 (Version No. 1)

Key Learning Outcomes:

- Describe the role of digital technology in today's life
- Demonstrate how to operate digital devices and use the associated applications and features, safely and securely
- Discuss the significance of displaying responsible online behaviour while browsing, using various social media platforms, e-mails, etc., safely and securely
- Create sample word documents, excel sheets and presentations using basic features
- utilize virtual collaboration tools to work effectively

Duration: 10 Hours (4 Theory+ 6 Practical)

Module 16: Entrepreneurship

Mapped to NOS DGT/VSQ/N0102 (Version No. 1)

Key Learning Outcomes:

- Explain the types of entrepreneurship and enterprises
- Discuss how to identify opportunities for potential business, sources of funding and associated financial and legal risks with its mitigation plan
- Describe the 4Ps of Marketing-Product, Price, Place and Promotion and apply them as per requirement
- Create a sample business plan, for the selected business opportunity

Duration: 7 Hours (3 Theory+ 4 Practical)

Module 17: Customer Service

Mapped to NOS DGT/VSQ/N0102 (Version No. 1)

Key Learning Outcomes:

- Describe the significance of analysing different types and needs of customers
- Explain the significance of identifying customer needs and responding to them in a professional manner.
- Discuss the significance of maintaining hygiene and dressing appropriately

Duration: 5 Hours (2 Theory+ 3 Practical)

Module 18: Getting Ready for Apprenticeship and Jobs

Mapped to NOS DGT/VSQ/N0102 (Version No. 1)

Key Learning Outcomes:

- Create a professional Curriculum Vitae (CV)
- Use various offline and online job search sources such as employment exchanges, recruitment agencies, and job portals respectively
- Discuss the significance of maintaining hygiene and confidence during an interview
- Perform a mock interview
- List the steps for searching and registering for apprenticeship opportunities

Duration: 8 Hours (3 Theory+ 5 Practical)

Annexure

Trainer Requirements

Trainer Prerequisites						
Minimum Educational Qualification	Specialization	Relevant Industry Experience		Training Experience		Remarks
		Years	Specialization	Years	Specialization	
Graduate in any discipline	Preferably Science/Computer Science/Electronics and Engineering /Information Technology	2	Experience/ internship in Data Quality Analyst or related roles	1	Experience/ internship in Data Quality Analyst or related roles	

Trainer Certification	
Domain Certification	Platform Certification
Certified for Job Role: "AI – Data Quality Analyst" mapped to QP: "SSC/Q8101, V2.0". Minimum accepted score is 80%	Recommended that the trainer is certified for the Job role "Trainer" mapped to the Qualification Pack "MEP/Q2601". Minimum accepted score is 80% aggregate

Assessor Requirements

Assessor Prerequisites						
Minimum Educational Qualification	Specialization	Relevant Industry Experience		Training/Assessment Experience		Remarks
		Years	Specialization	Years	Specialization	
Graduate in any discipline	Preferably Science/Computer Science/Electronics and Engineering /Information Technology	2	Experience/ internship in Data Quality Analyst or related roles	1	Experience/ internship in Data Quality Analyst or related roles	

Assessor Certification	
Domain Certification	Platform Certification
Certified for Job Role: "AI – Data Quality Analyst" mapped to QP: "SSC/Q8101, V2.0". Minimum accepted score is 80%	Recommended that the trainer is certified for the Job role "Assessor" mapped to the Qualification Pack "MEP/Q2701". Minimum accepted score is 80% aggregate

Assessment Strategy

This section includes the processes involved in identifying, gathering and interpreting information to evaluate the learner on the required competencies of the program.

Assessment System Overview

A uniform assessment of job candidates as per industry standards facilitates progress of the industry by filtering employable individuals while simultaneously providing candidates with an analysis of personal strengths and weaknesses.

Assessment Criteria

Criteria for assessment for each Qualification Pack will be created by the Sector Skill Council. Each Performance Criteria (PC) will be assigned marks proportional to its importance in NOS. SSC will also lay down the proportion of marks for Theory and Skills Practical for each PC.

The assessment for the theory part will be based on a knowledge bank of questions created by the SSC. Assessment will be conducted for all compulsory NOS, and where applicable, on the selected elective/option NOS/set of NOS.

Guidelines for Assessment			
Testing Environment	Tasks and Functions	Productivity	Teamwork
<ul style="list-style-type: none"> Carry out assessments under realistic work pressures that are found in the normal industry workplace (or simulated workplace). Ensure that the range of materials, equipment and tools that learners use are current and of the type routinely found in the normal industry workplace (or simulated workplace) environments. 	<ul style="list-style-type: none"> Assess that all tasks and functions are completed in a way, and to a timescale, that is acceptable in the normal industry workplace. Assign workplace (or simulated workplace) responsibilities that enable learners to meet the requirements of the NOS. 	<ul style="list-style-type: none"> Productivity levels must be checked to ensure that it reflects those that are found in the work situation being replicated. 	<ul style="list-style-type: none"> Provide situations that allow learners to interact with the range of personnel and contractors found in the normal industry workplace (or simulated workplace).

Assessment Quality Assurance framework

NASSCOM provides two assessment frameworks NAC and NAC-Tech.

NAC (NASSCOM Assessment of Competence)

NAC follows a test matrix to assess Speaking & Listening, Analytical, Quantitative, Writing, and Keyboard skills of candidates appearing for assessment.

NAC-Tech

NAC-Tech test matrix includes assessment of Communication, Reading, Analytical, Logical Reasoning, Work Management, Computer Fundamentals, Operating Systems, RDBMS, SDLC, Algorithms & Programming Fundamentals, and System Architecture skills.

Methods of Validation

To pass a QP, a trainee should score an average of 70% or more. In case of unsuccessful completion, the trainee may seek reassessment on the Qualification Pack.

Method of assessment documentation and access

The assessment agency will upload the result of assessment in the portal. The data will not be accessible for change by the assessment agency after the upload. The assessment data will be validated by SSC assessment team. After upload, only SSC can access this data.

Recommended Supplemental Readings

The learning modules covered in the Model Curriculum for AI-Data Quality Analyst are designed to meet the expected outcomes as per the QP. While the modules aligned to NOS are focused on technical/ behavioral competencies, bridge modules cover the prerequisite/ preparatory topics that are indispensable to complete the course. However, to provide additional QP specific knowledge to the learners, the following supplemental readings on related topics are recommended. These readings will equip the learners with an understanding of advanced or ancillary concepts to take up more complex tasks as listed in the QP.

QP	Recommended Supplemental Reading
SSC/Q8101: AI- Data Quality Analyst	1) Database Management Concepts

References

Glossary

Term	Description
Key Learning Outcome	Key learning outcome is the statement of what a learner needs to know, understand and be able to do in order to achieve the terminal outcomes. A set of key learning outcomes will make up the training outcomes. Training outcome is specified in terms of knowledge, understanding (theory) and skills (practical application).
Training Outcome	Training outcome is a statement of what a learner will know, understand and be able to do upon the completion of the training .
Terminal Outcome	Terminal outcome is a statement of what a learner will know, understand and be able to do upon the completion of a module . A set of terminal outcomes help to achieve the training outcome.
National Occupational Standard	National Occupational Standard specify the standard of performance an individual must achieve when carrying out a function in the workplace
Persons With Disability	Persons with Disability are those who have long-term physical, mental, intellectual or sensory impairments which in interaction with various barriers may hinder their full and effective participation in society on an equal basis with others.
Integrated Development Environment	An integrated development environment is a software application that provides comprehensive facilities to computer programmers for software development.
Natural Language Processing	Natural Language Processing or NLP is a field of Artificial Intelligence that gives the machines the ability to read, understand and derive meaning from human languages.

Acronyms and Abbreviations

Term	Description
QP	Qualification Pack
NSQF	National Skills Qualification Framework
NSQC	National Skills Qualification Committee
NOS	National Occupational Standards
SSC	Skill Sectors Councils
NASSCOM	National Association of Software & Service Companies
PwD	Persons with Disability
IDE	Integrated development environment
NLP	Natural Language Processing