

Pradhan Mantri Kaushal Vikas Yojana (PMKVY)

A COURSE PROJECT REPORT

MASTER OF TECHNOLOGY

INDUSTRIAL ENGINEERING AND MANAGEMENT

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1. Abstract:

In this project a study is done to analyze the success rate of PMKVY in India. Pradhan Mantri Kaushal Vikas Yojana (PMKVY) is a skill development initiative scheme of the Government of India for recognition and standardisation of skills. The aim of the PMKVY scheme is to encourage aptitude towards employable skills and to increase working efficiency of probable and existing daily wage earners, by giving monetary awards and rewards and by providing quality training to them. The impact and performance of PMKVY was analysed along with the comparison of students that are enrolled in different states of India. Similarly, analysis of data revealed students that have trained, assessed and certified by this programme. The primary and secondary data is collected from the website(data.gov.in). Python and SQL were used as a tool to analyse the data. Data visualization revealed that highest number of students enrolled are in Delhi and lowest in Lakshadweep. The highest certified to training ratio is in Dadra and Nagar Haveli And Daman And Diu and lowest in Lakshadweep, Placed by Training Ratio is maximum in Puducherry and minimum in Lakshadweep.

2. Dataset and Database

2.1.Description of the data:

- 1) Date Till - Date upto which data is taken. Here Data is taken till 21-04-2022.
- 2) Scheme - Divided into PMKVY 2.0(2016-2020) and PMKVY 3.0(2020-2022).
- 3) Component - Its having two components CSCM(Centrally Sponsored Centrally Managed) and CSSM(Centrally Sponsored State Managed)components.
- 4) Training Type - It includes three types of training namely : Recognition of Prior Learning (RPL), Short term training (STT), Special Projects (SP).
- 5) TCState and TCDistrict - Consists of 8 Union Territories,28 States and 720 Districts of India
- .6) Enrolled - How many students enrolled in the PMKVY scheme.
- 7) Trained - How many students got trained in the PMKVY scheme.
- 8) Assessed - How many students got assessed in the PMKVY scheme.
- 9) Certified - How many students got certified in the PMKVY scheme.
- 10) Reported Placed - How many students got placed in the PMKVY scheme

3. Dataset in 3nf form:

3.1. Table1

	0	1	2	3	4	5	6	7	8	9	10
0	Data Till	Scheme	Component	TrainingType	TCState	TCDistrict	Enrolled	Trained	Assessed	Certified	ReportedPlaced
1	21-04-2022	PMKVY 2.0	CSCM	RPL	Andaman And Nicobar Islands	Nicobars	46	46	46	46	0
2	21-04-2022	PMKVY 2.0	CSCM	RPL	Andaman And Nicobar Islands	South Andamans	10	10	6	6	0
3	21-04-2022	PMKVY 2.0	CSCM	STT	Andaman And Nicobar Islands	Nicobars	120	120	120	108	0
4	21-04-2022	PMKVY 2.0	CSSM	STT	Andaman And Nicobar Islands	Nicobars	156	156	78	57	0
5	21-04-2022	PMKVY 2.0	CSCM	STT	Andaman And Nicobar Islands	North And Middle Andaman	1041	870	861	839	124

3.2. Table2

	0	1	2	3	4	5	6	7	8
0	Scheme	Component	TrainingType	TCDistrict	Enrolled	Trained	Assessed	Certified	ReportedPlaced
1	PMKVY 2.0	CSCM	RPL	Nicobars	46	46	46	46	0
2	PMKVY 2.0	CSCM	RPL	South Andamans	10	10	6	6	0
3	PMKVY 2.0	CSCM	STT	Nicobars	120	120	120	108	0
4	PMKVY 2.0	CSSM	STT	Nicobars	156	156	78	57	0
5	PMKVY 2.0	CSCM	STT	North And Middle Andaman	1041	870	861	839	124

3.3. Table3

	0	1
0	TCState	TCDistrict
1	Andaman And Nicobar Islands	Nicobars
2	Andaman And Nicobar Islands	South Andamans
3	Andaman And Nicobar Islands	Nicobars
4	Andaman And Nicobar Islands	Nicobars
5	Andaman And Nicobar Islands	North And Middle Andaman

4. Data types

4.1. Data type- primary source

Data Till	object
Scheme	object
Component	object
TrainingType	object
TCState	object
TCDistrict	object
Enrolled	int64
Trained	int64
Assessed	int64
Certified	int64
ReportedPlaced	int64
dtype:	object

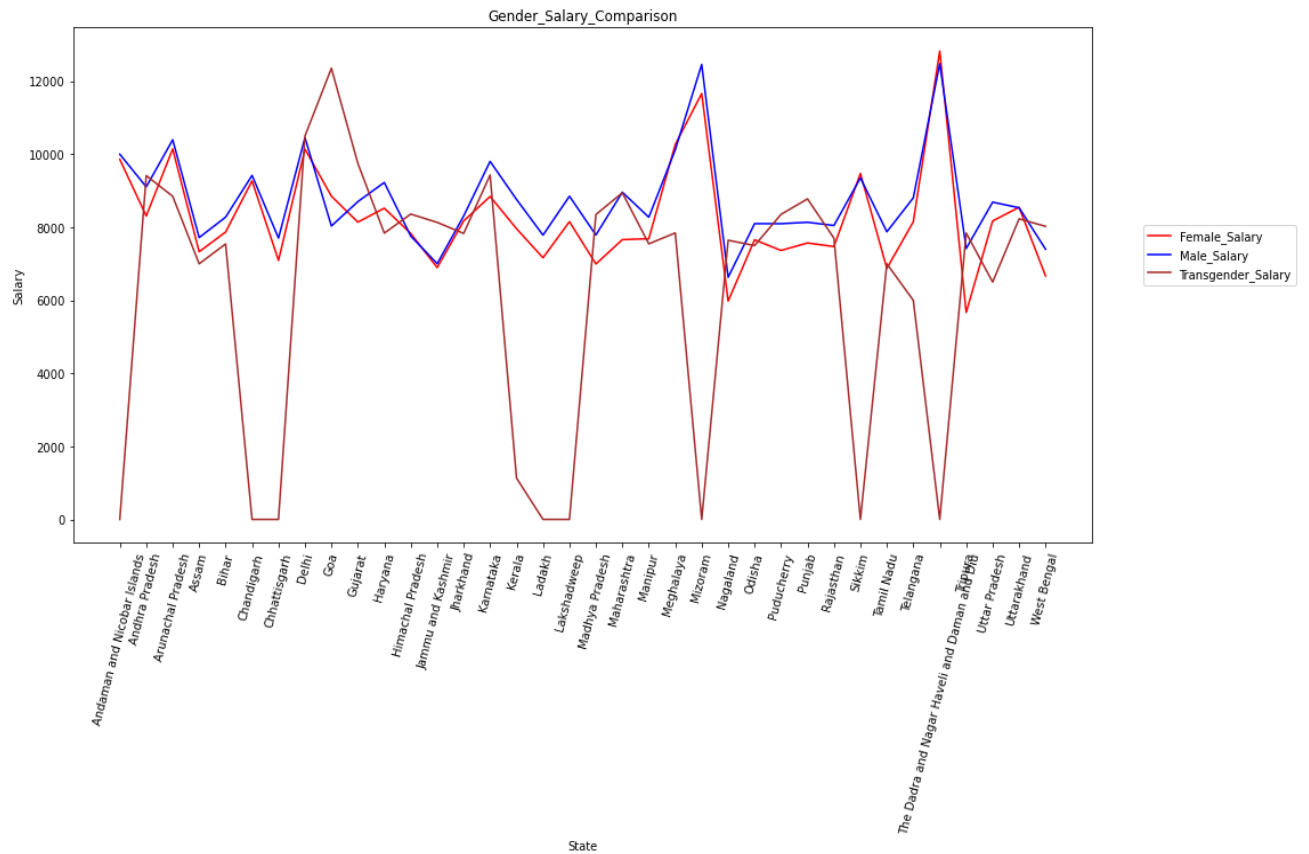
4.2. Data type- secondary source 1

TCState	object
EnrolledFemale	int64
EnrolledMale	int64
EnrolledTransgender	int64
ReportedPlaced_Female	int64
ReportedPlaced_Male	int64
ReportedPlaced_Transgender	int64
TotalEnrolled	int64
TotalReported_Placed	int64
dtype:	object

4.3. Data type- secondary source 2

TCState	object
Female_Salary	int64
Male_Salary	int64
Transgender_Salary	int64
dtype:	object

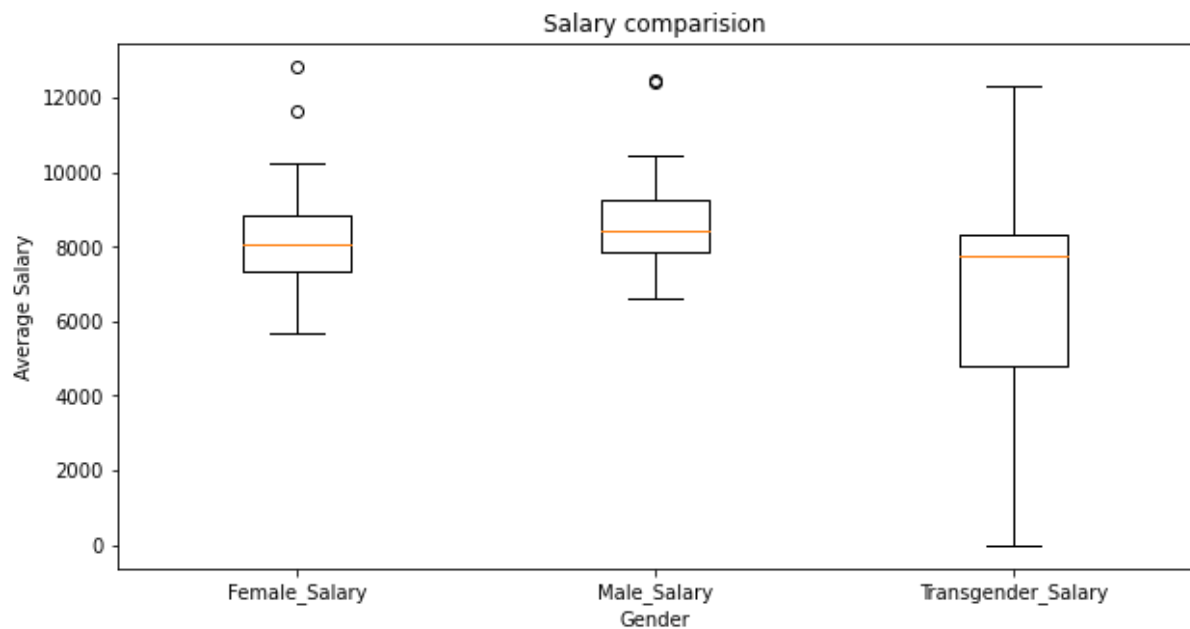
6.2. Gender salary comparison in different states:



Insight:

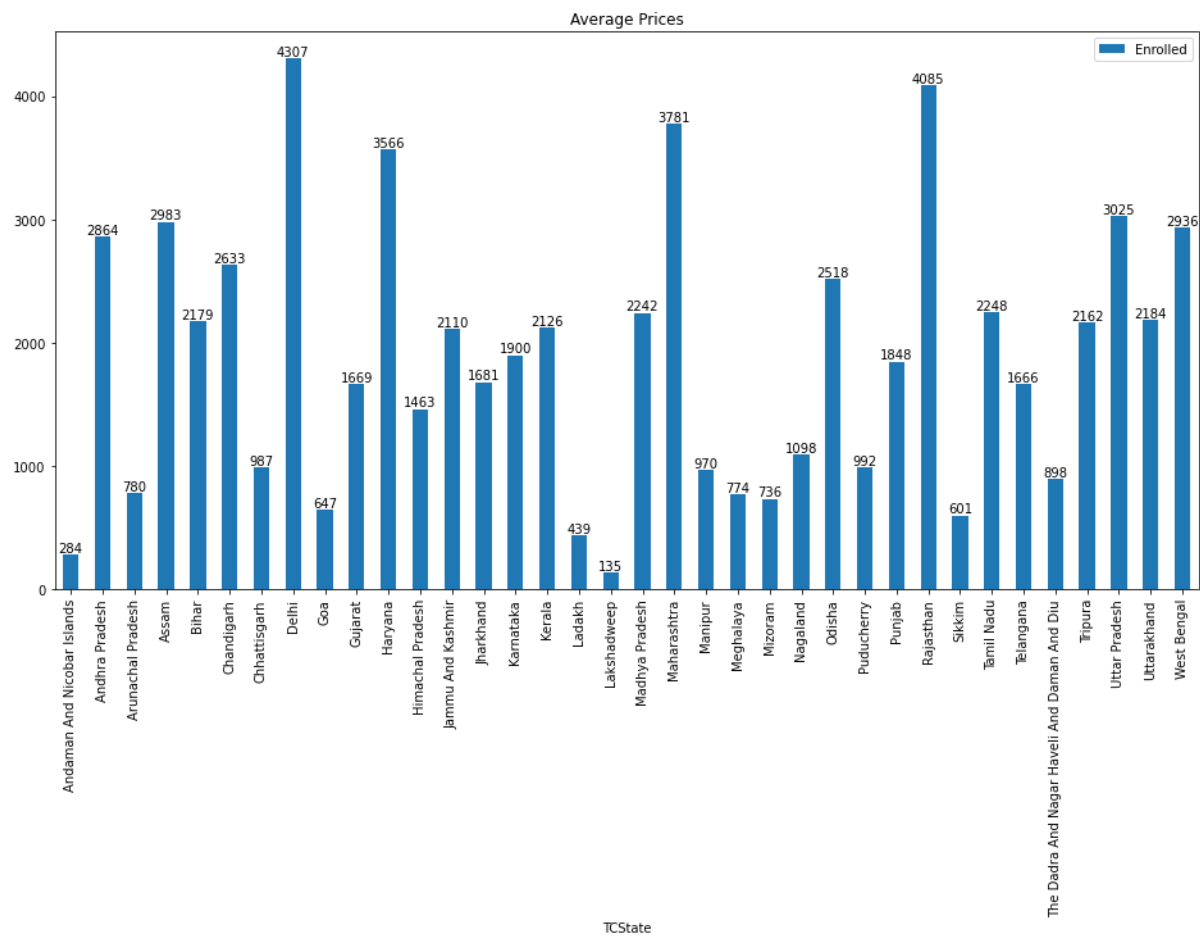
- The highest female salary state is The Dadra and Nagar Haveli and Daman and Diu.
- The highest male salary state is The Dadra and Nagar Haveli and Daman and Diu.
- The highest transgender salary state is Goa.

6.3. Average salary comparison among different genders



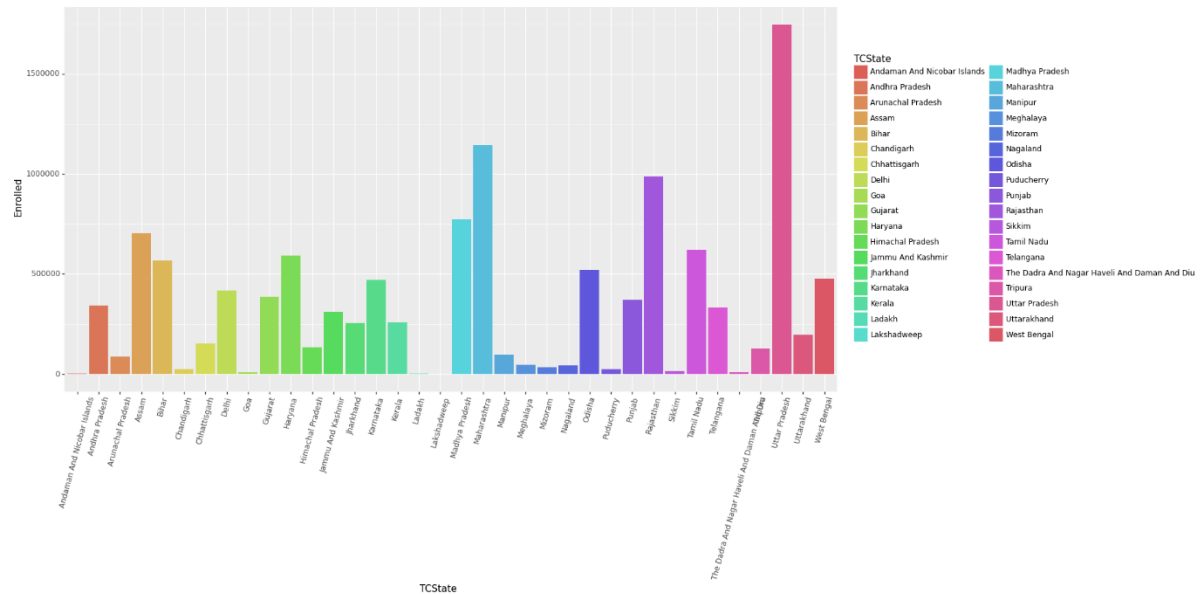
Insights: By visualizing trends of line we can predict that average salary of Men is greater than women and Transgender.

6.4. Average Number of Students enrolled in different cities:



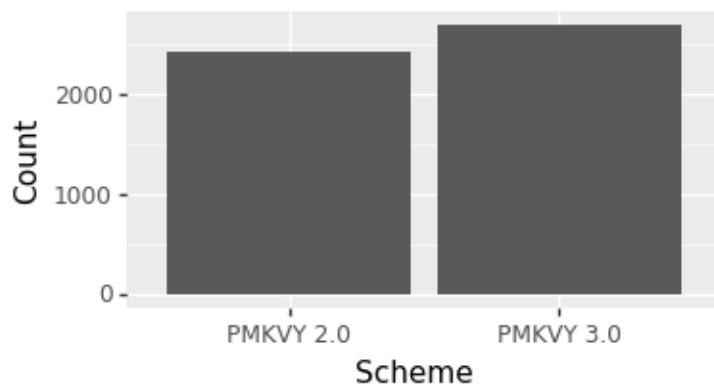
Insights: Most number of average students enrolled in Delhi followed by Rajasthan and least being in Lakshadweep

6.5. Maximum Number of student enrolled in different states:



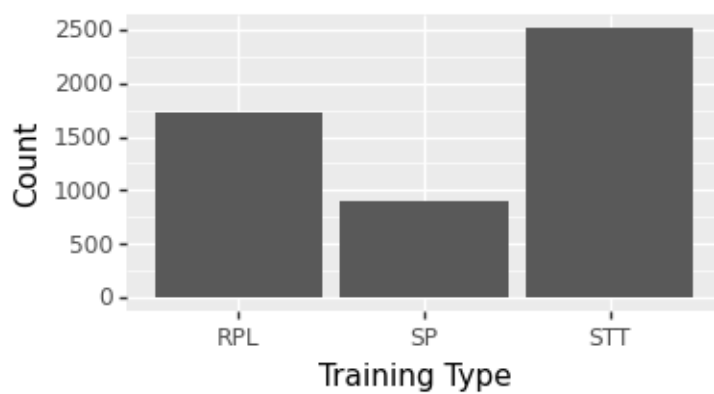
Insights: Maximum students enrolled in Uttar Pradesh and minimum in Lakshwadeep.

6.6. Participation in different Scheme



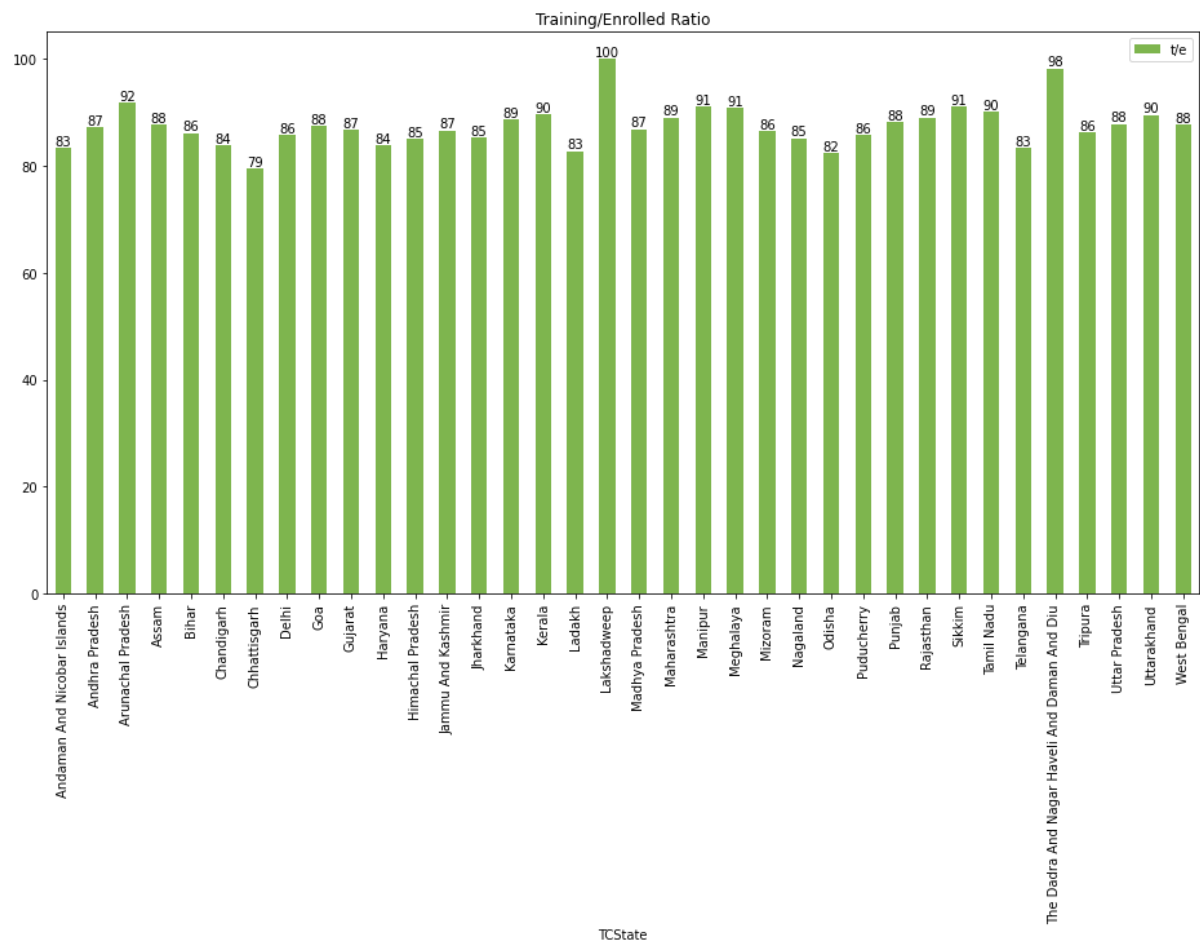
Insights: In our data mostly PMKVY 3.0 is covered

6.7. participation in different trainings types



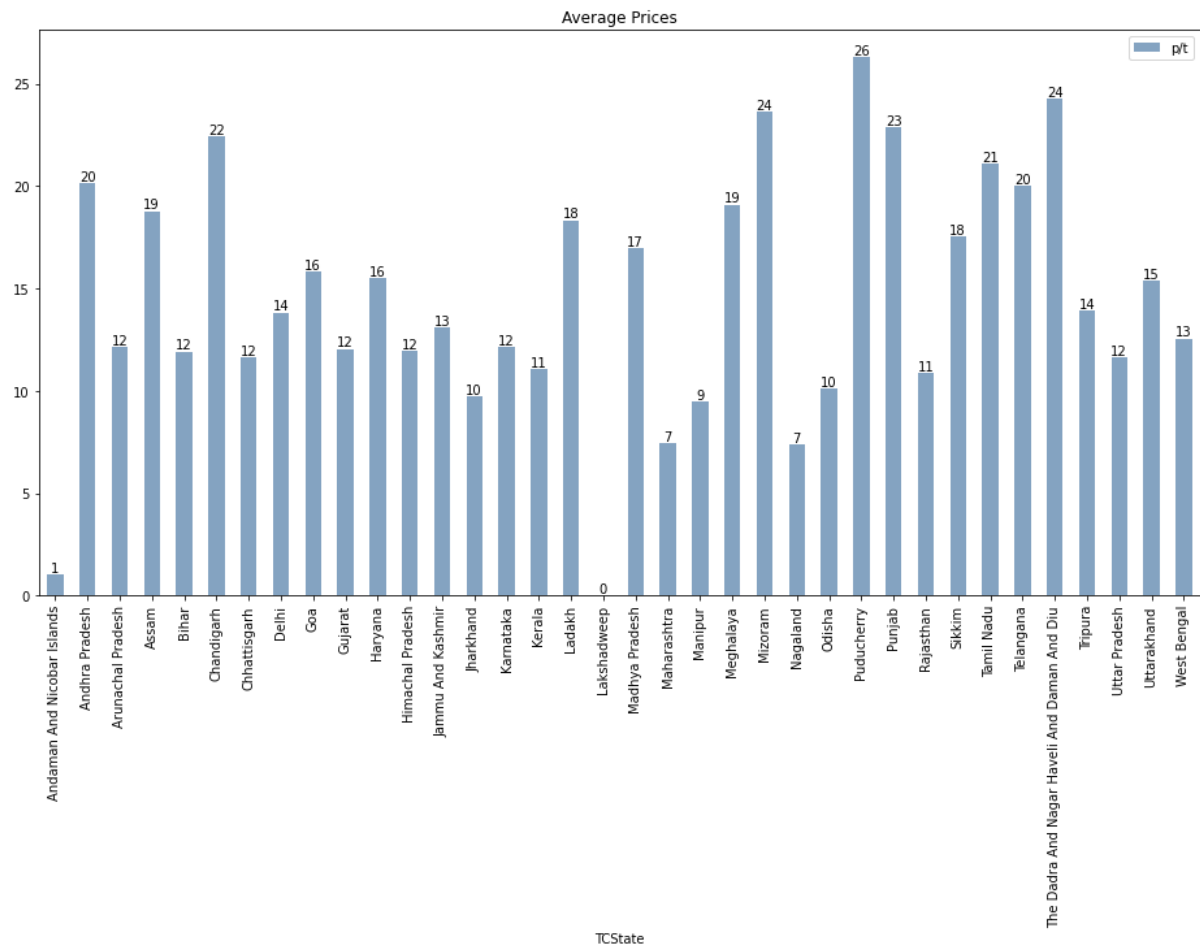
Insights: Mostly STT is the Training type done by the students least being SP.

6.8. Training by enrolled ratio in different states:



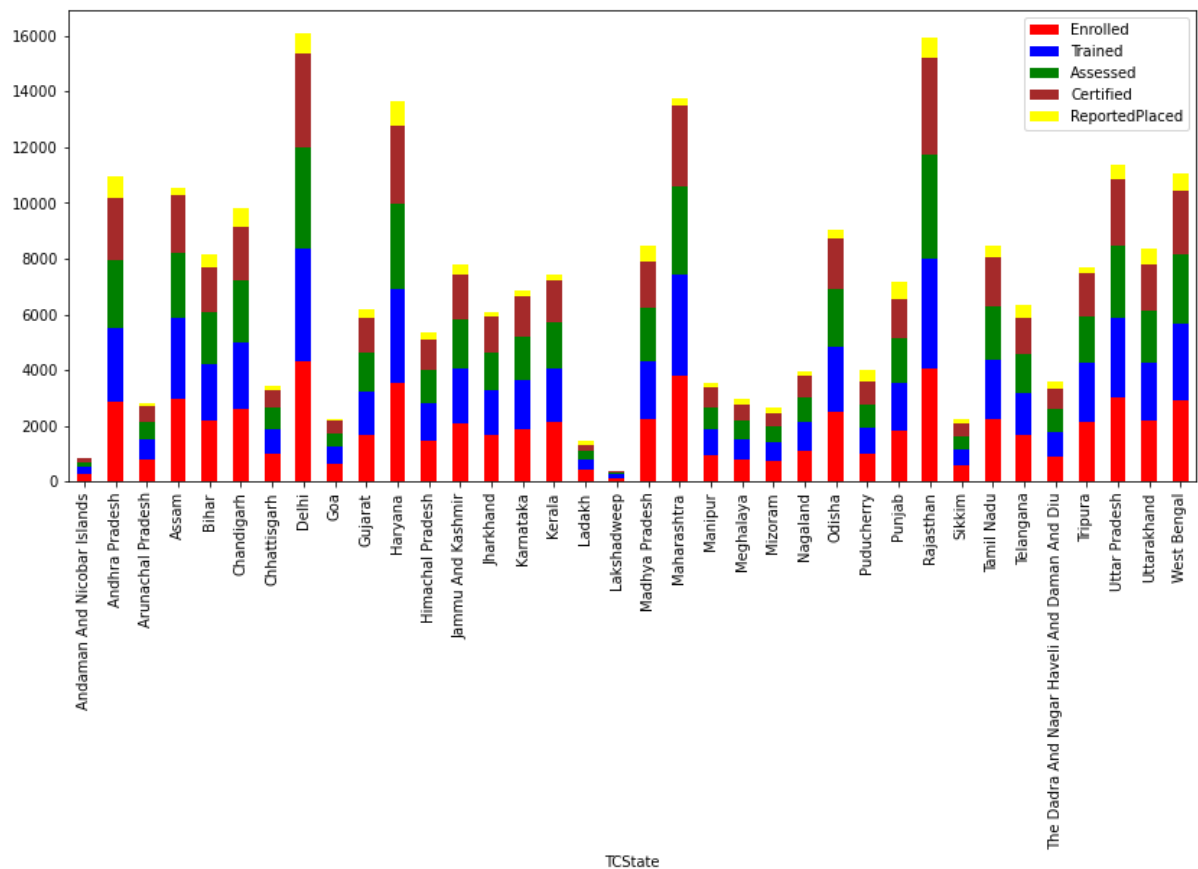
Insights: Training by Enrolled Ratio is Maximum in Lakshwadeep and Minimum in Chattisgarh.

6.9. Placed by Training Ratio in different state:



Insights: Placed by Training Ratio is maximum in Puducherry and minimum in Lakshwadeep.

6.10. Stacked Graph for PMKVY



Insights:

- DELHI has more enrolled persons in PMKVY scheme followed by Maharashtra and Rajasthan.
- DELHI has more trained persons in PMKVY scheme followed by Maharashtra and Rajasthan.
- DELHI has more assessed persons in PMKVY scheme followed by Maharashtra and Rajasthan.

7. Conclusion:

1) Total Fund allocated to combined PMKVY, PMKVY 2.0 and PMKVY3.0 is around 13,000 Cr.

Which gave training to around 1 Cr. Persons so that they can acquire skills which will help them to get a job. Thus, this scheme is a huge success.

2) UT like Puducherry, Daman has achieved great success by achieving around 25% placed to training ratio.

3) States like Andhra Pradesh, Mizoram, Telangana, Tamil Nadu, Punjab performed well as they have around 20% placed to training ratio.

4) Salary Comparison between Men, Women and Transgender is not very wide. Thus, showing good Signs.

8. Reference:

<https://data.gov.in/catalog/msde-pradhan-mantri-kaushal-vikas-yojana-pmkvy>