

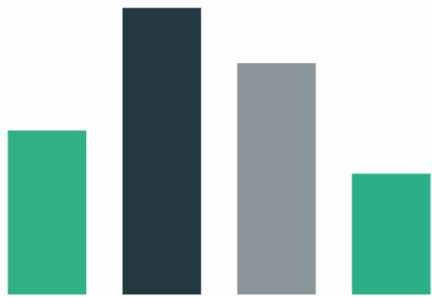
BUILD YOUR CAREER IN THE GLAMOROUS JOB AREA OF THE CENTURY – **BIG DATA AND DATA SCIENCE**



Delivered by


Hiren Kakkad

CEO & Co-founder | Stat Modeller




STAT MODELLER
ROBUST KIT OF SOLUTIONS

www.statmodeller.com



Let's have a look at what we will
be discussing during this
session



Agenda

What we will be discussing during the session

1



Introduction to Big Data and Data Science

2



Application Areas

3



Varieties of Roles

4



Prepare your Learning bucket to become Data Science Expert

5



Career Opportunities in India and Abroad

6



Q & A



INTRODUCTION TO BIG DATA AND DATA SCIENCE

What is Big Data?

- ❑ Data that is so large, fast or complex that it's difficult or impossible to process using traditional methods.



How Big???

2021 *This Is What Happens In An Internet Minute*



Created By:
[@LoriLewis](#)
[@OfficiallyChadd](#)

Let's see how the world is changing?



3 Types of Data in Big Data

01

Structured Data

Excel, SQL, Oracle,
Databases, ERP, SAP etc....

1001 1010	1001 0101	1100 0110
0011 1100	0110 1001	0011 1010
0011 0011	0101 1100	1001 1001

02

Unstructured Data

User Data, likes, followers,
comments, tweets, Audio,
Video, Geospatial



03

Semi Structured Data

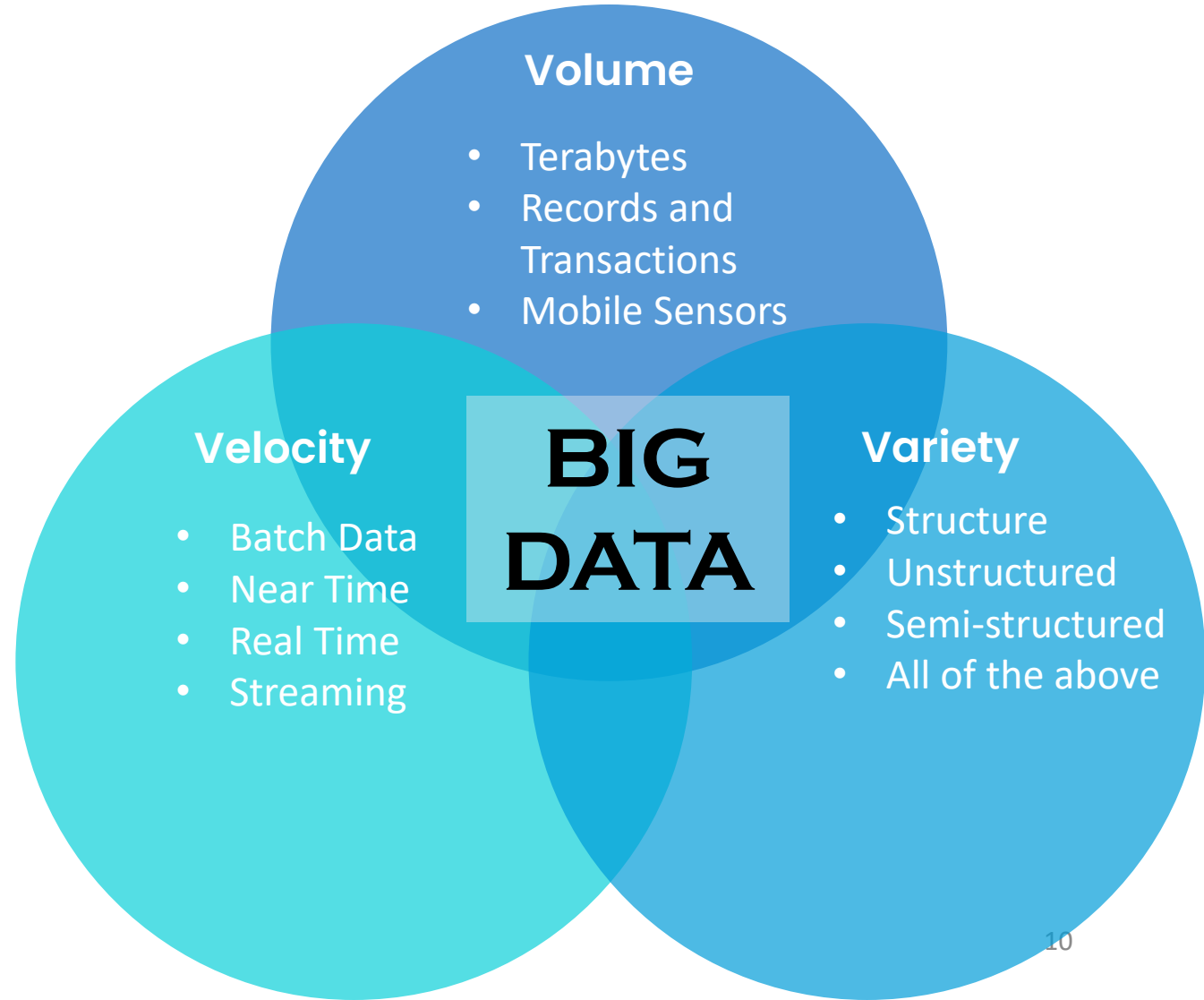
XML, Email, Call center
logs, etc....



STAT MODELLER
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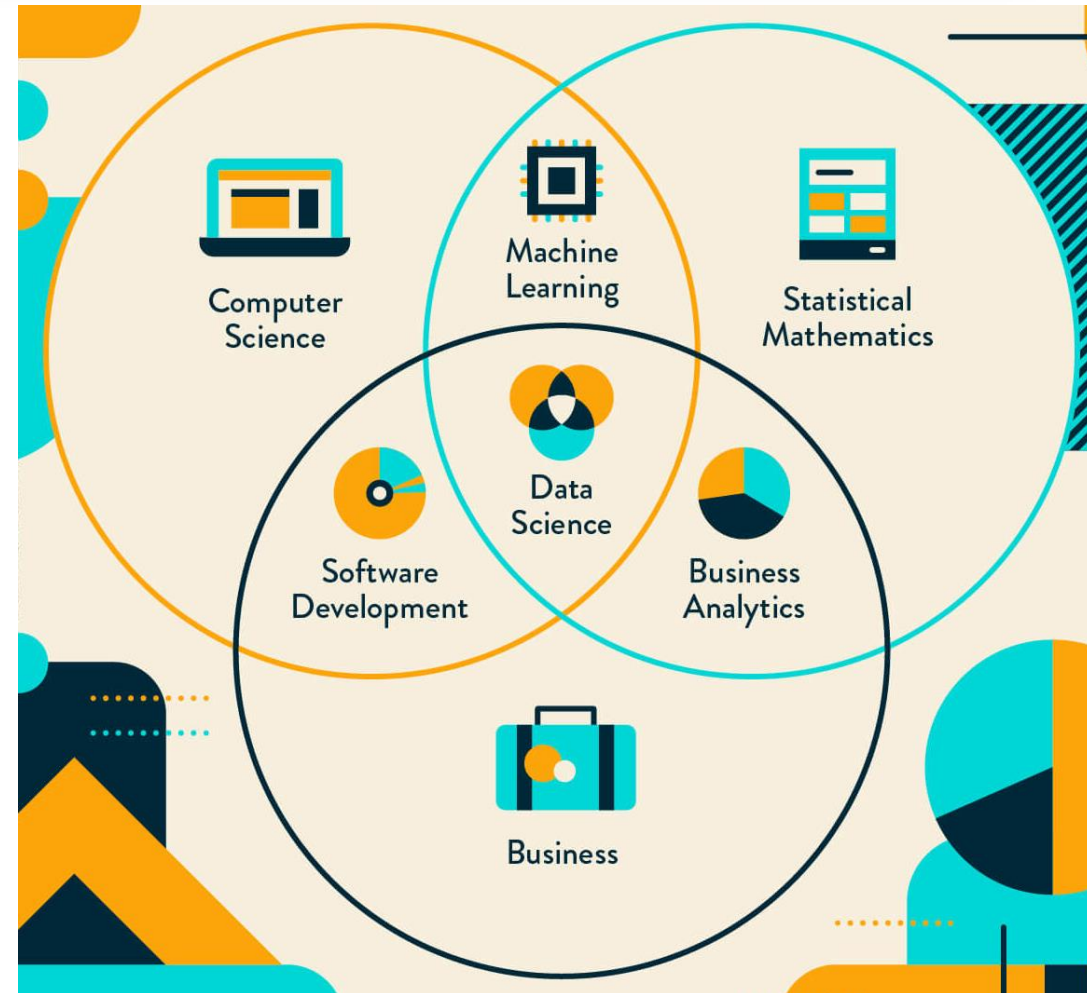
3Vs of Big Data

- ❑ The act of accessing and storing large amounts of information for analytics has been around for a long time.
- ❑ But the concept of big data gained momentum in the early 2000s when industry analyst Doug Laney articulated the now-mainstream definition of big data as the three V's:

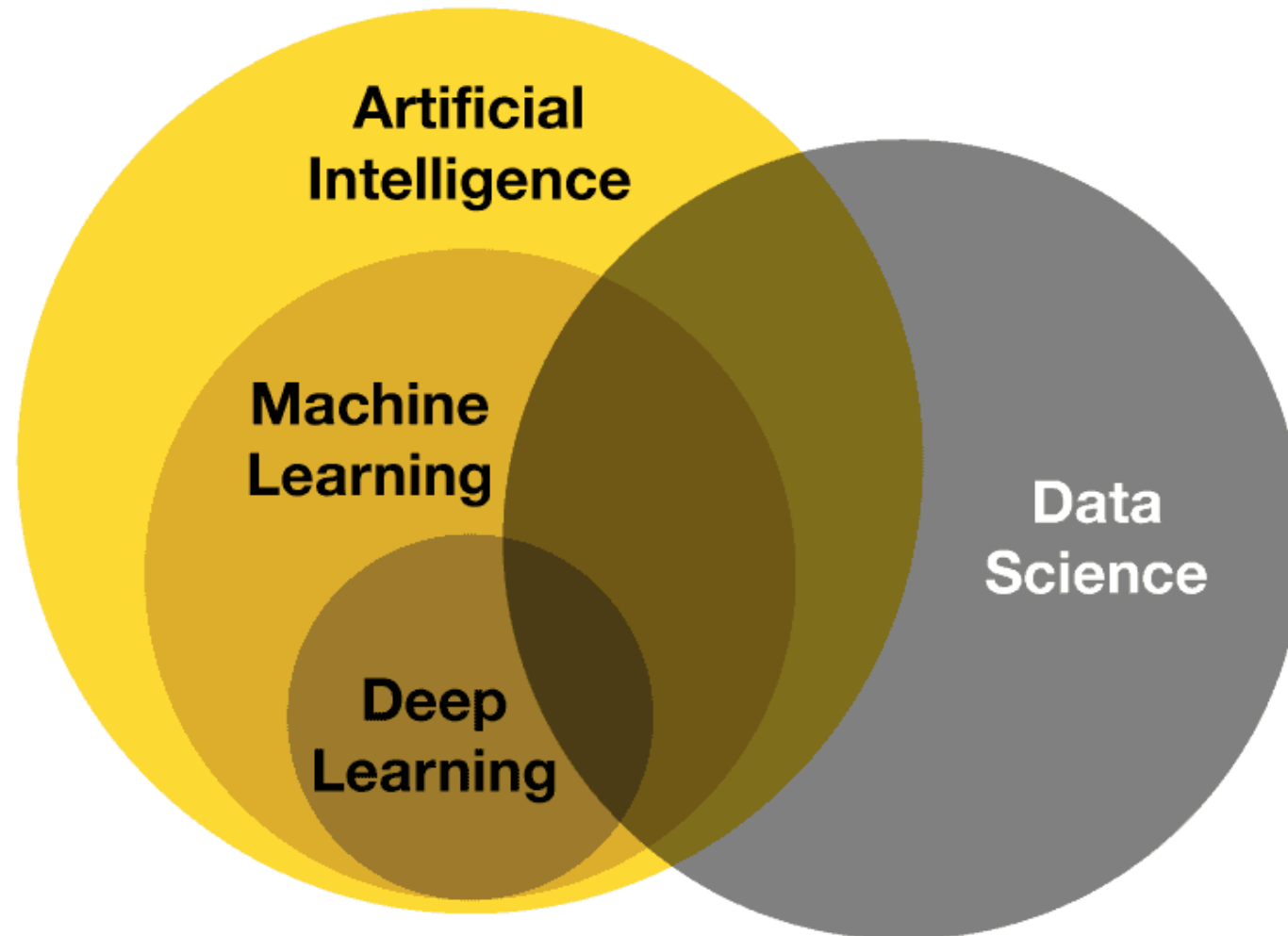


Data Science

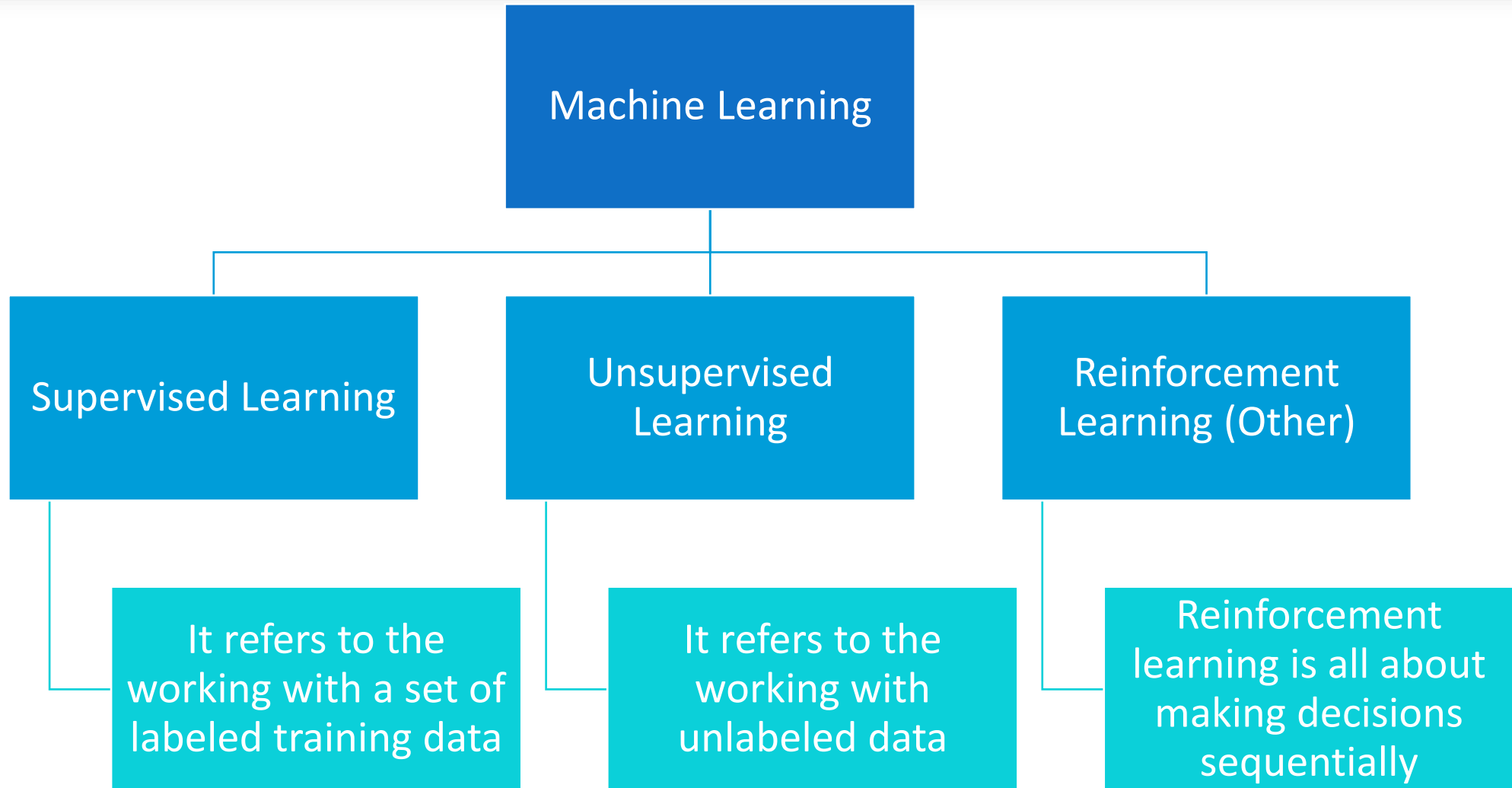
- ❑ Data science is really the fusion of three disciplines: computer science, math, and business.
- ❑ Today, our mobile devices generate more data than ever before, posing new challenges for storage and analysis. Exabytes (one million terabytes) of data are created every day.
- ❑ Gaining marketing insight from this ever-growing database in a timely manner is becoming increasingly difficult.
- ❑ This is where data science comes in.



Machine Learning – AI – Data Science



Types of Machine Learning

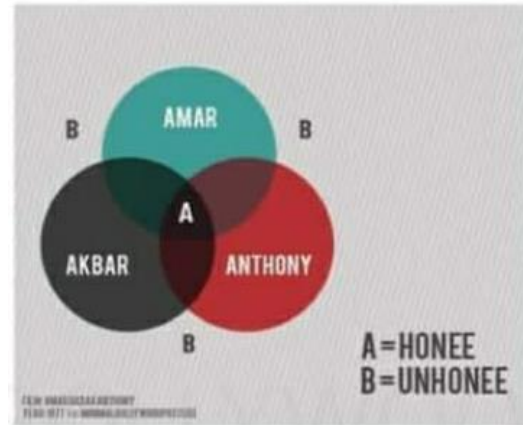


If Bollywood Movie presented by Analyst then...

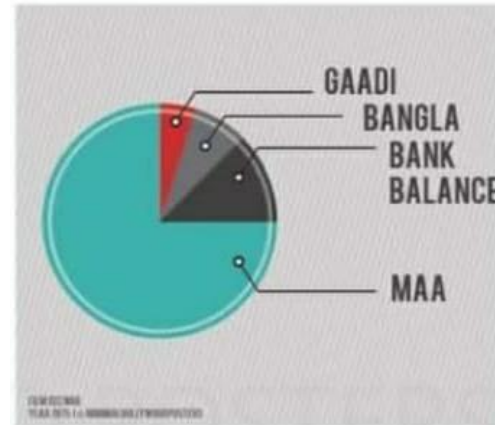
Baazigar



Amar Akbar Anthony



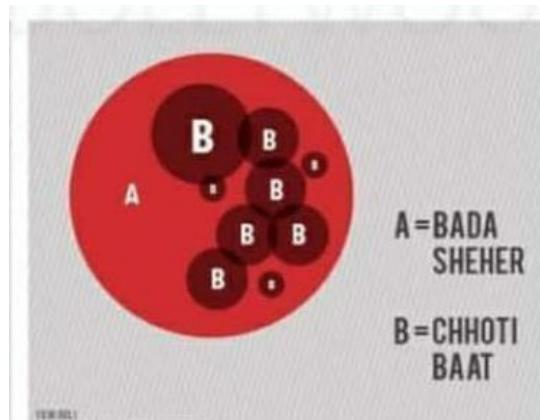
Deewar



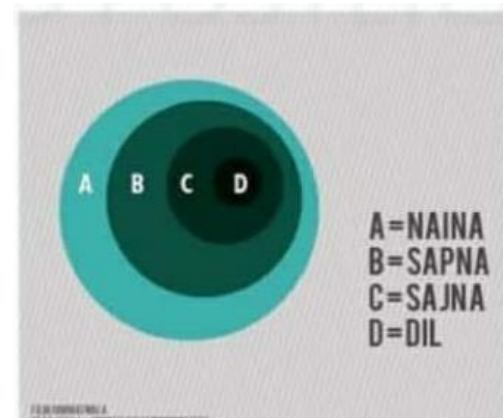
Zanjeer




DDLJ




Himmatwala





Can I take 3-4 Minutes to
introduce myself?



Team

Snaps

Clients

About

History

SHORT PROFILE



- CEO & Co-founder of Stat Modeller
- More than 10 years of industrial experience
- Awardee of the Training Quality Excellence Award by IQAC and ISTD
- Certified Trainer by NSDC & Skill India
- Certified by Google Analytics Academy for Data Studio
- Certified Lean Six Sigma Black Belt
- Trained 9000+ participants
- Guided 100+ Improvement projects
- Assisted 45+ Research Projects
- Trainer for in Data Analysis, R, Python, SPSS, Minitab, Power BI, Excel, Advanced Excel, Six Sigma, TPM, Kaizen, 5-S, Kanban etc.
- Life member of ISTD (Indian Society for Training and Development)



About

APPLICATION AREAS

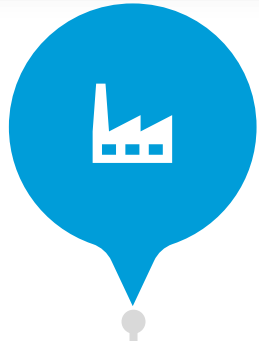


Data Science Application Areas



E-commerce

- Identifying Consumers
- Recommending Products
- Analyzing Reviews



Manufacturing

- Predicting potential problems
- Monitoring systems
- Automating MFG units
- Maintenance scheduling
- Anomaly Detection



Banking

- Fraud Detection
- Credit Risk Modeling
- Customer Lifetime Value



Healthcare

- Medical Image Analysis
- Drug Discovery
- Bioinformatics
- Virtual Assistants



Transport

- Self Driving Cars
- Enhanced Driving Experience
- Car Monitoring System
- Enhancing the safety of passengers



Finance

- Customer Segmentation
- Strategic decision making
- Algorithmic Trading
- Risk Analysis

VARIETIES OF ROLES



Varieties of Roles

01

Data Analyst

Exp: 0-3 years

Role:
what HAS happened?

Process Data, Provide Reports, Summarize and Visualize Data

Tools: Excel, Python, R, SQL, Power BI, Tableau etc....

02

Business Analyst

Exp: 3-7 years

Role:
what HAS happened?

Process Data, Provide Reports, Summarize and Visualize Data + Connect with business scenarios

Tools: Excel, Python, R, SQL, Power BI, Tableau etc....

03

ML Engineer

Exp: 3-5 years

Role:
what WILL happened?

Data pre-processing, Apply ML algorithms, Do Prediction

Tools: Python, R, SQL, Power BI, Tableau, Spark, TensorFlow, Keras, Hadoop etc....

04

Data Scientist

Exp: 5+ years

Role:
what WILL happened?

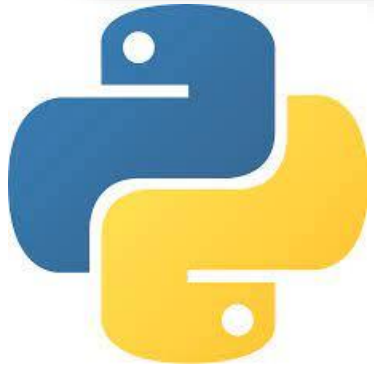
Data pre-processing, Apply ML algorithms, Do Prediction + Domain Knowledge

Tools: Python, R, SQL, Power BI, Tableau, Spark, TensorFlow, Keras, Hadoop etc....

PREPARE YOUR LEARNING BUCKET TO BECOME
DATA SCIENCE EXPERT



Technologies used in Data Science and Data Analytics



Confused from Where to Start?



Start Making a Learning Bucket



MS Excel

Basic Data
Manipulation

Power BI/ Tableau

Data Visualization/
Dashboarding

Python

Data Analysis and
Statistical Modelling

R

Handle structured
data

SQL

CAREER OPPORTUNITIES IN INDIA AND ABROAD



Data Science Job Opportunities in Abroad

indeed.com/q-Data-Sciences-International-jobs.html

Date Posted ▾ Remote ▾ Salary Estimate ▾ Job Type ▾ Shifts & Schedules ▾ Location ▾ Company ▾
Experience Level ▾

Upload your resume - Let employers find you

Data Sciences International jobs

Sort by: **relevance - date** Page 1 of 34,587 jobs ⓘ

Vice President Data & Analytics Strategy ⋮

Equifax 3.5 ★
Atlanta, GA 30309 (Midtown area)

- Fintech or **data** start-up experience.
- 10+ years experience with **data** and analytics products.
- The VP, D&A Strategy will be a key member of the D&A Strategy team...

13 days ago · More...

Be the first to see new Data Sciences International jobs

Email address

Activate

By creating a job alert, you agree to our [Terms](#). You can change your consent settings at any time by unsubscribing or as detailed in our terms.

Data Science Job Opportunities in US - LinkedIn

The screenshot displays a LinkedIn job search interface. The search criteria are 'data scientist' in the 'United States'. The results list includes:

- Consultant, Product Management - Customer Segmentation and GTM** at Dell Technologies, Hopkinton, MA (Remote), posted 10 hours ago. It is a full-time position with 10,001+ employees in Information Technology & Services. 1 connection and 2 school alumni are associated with the role. The job is actively recruiting.
- People Services Data Scientist** at General Motors, Detroit, MI (Remote), posted 3 weeks ago. It offers medical, vision, dental, and 2 other benefits. 7 connections work here, and there is 1 applicant.
- Data Scientist** at Tata Consultancy Services, Grand Rapids, MI, posted 1 day ago. 54 connections work here, and there are 22 applicants.
- Data Scientist - Instagram Promotion Enablement** (partially visible).

The detailed view of the Dell Technologies role includes the following information:

- Job Title:** Consultant, Product Management - Customer Segmentation and GTM
- Company:** Dell Technologies · Hopkinton, MA (Remote) · 10 hours ago · 1 applicant
- Job Type:** Full-time
- Company Size:** 10,001+ employees · Information Technology & Services
- Connections:** 1 connection · 2 school alumni
- Recruiting Status:** Actively recruiting
- Buttons:** Apply, Save
- Description:** Consultant, Product Management – Customer Segmentation and Go to Market. Join us as a Consultant, Product Management on our Data Management Incubation team in Hopkinton, Massachusetts to do the best work of your career and make a profound social impact. Open to a Remote Worker.
- Section:** What You'll Achieve

Data Science Job Opportunities in Canada - LinkedIn

The screenshot shows a LinkedIn search for 'data scientist' in 'Canada'. The search results are filtered to show 10,679 results. A job alert is turned off. The top result is 'Data Scientist Rotation Program' by National Bank of Canada, Montreal, QC, posted 5 hours ago. It is a full-time, entry-level position at a company with 10,001+ employees in the banking industry. The job is actively recruiting. Below this are other results: 'R&D Data Scientist' by J.D. Power, Canada (Remote), posted 4 days ago; 'Senior Data Scientist' by Manulife, Waterloo, ON, posted 7 hours ago; and 'Professor, Data Science and Analytics' by Sheridan College.

Data scientist in Canada
10,679 results

Job alert Off ⚙️

Data Scientist Rotation Program
National Bank of Canada
Montreal, QC
Actively recruiting
5 hours ago

R&D Data Scientist
J.D. Power
Canada (Remote)
Actively recruiting
4 days ago

Senior Data Scientist
Manulife
Waterloo, ON
Actively recruiting
7 hours ago

Professor, Data Science and Analytics
Sheridan College

Data Scientist Rotation Program
National Bank of Canada · Montreal, QC · 5 hours ago · 5 applicants

Full-time · Entry level
10,001+ employees · Banking
See how you compare to 5 applicants. [Reactivate Premium](#)
Actively recruiting

[Apply](#) [Save](#)

Description

- Are you a fan of Big Data?
- Are you familiar with SQL, Shell and Python?
- Do you want to work with a team that is passionate?
- Do you want to collaborate on projects that are at the heart of the Bank's priorities?

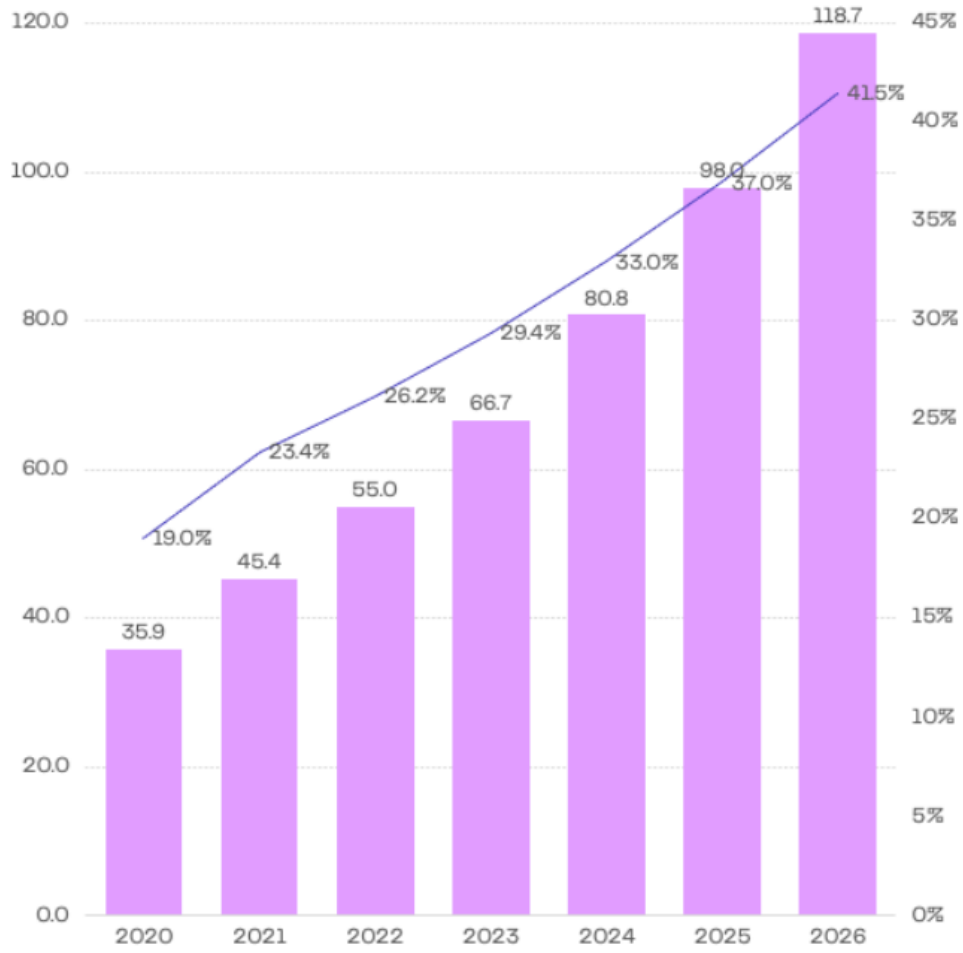
National Bank is looking for candidates to fill several full-time positions with the Data Scientist Rotation Program to work on innovative projects in advanced analytics.

Analytics India Industry Study 2021

As covered in our reports regarding the development of the data science domain in India, it is evident that the analytics and data science function has experienced significant growth over the last year, despite the pandemic. The rising trend in [salaries](#) across almost all parameters, the maturing of the analytics market in terms of experienced hiring and salaries offered, the significance of gender diversity in the Indian analytics function, and the **\$836.3 Mn investment** in Indian AI and analytics start-ups in 2020, are self-explanatory in terms of the development and global standing of the Indian Analytics market.

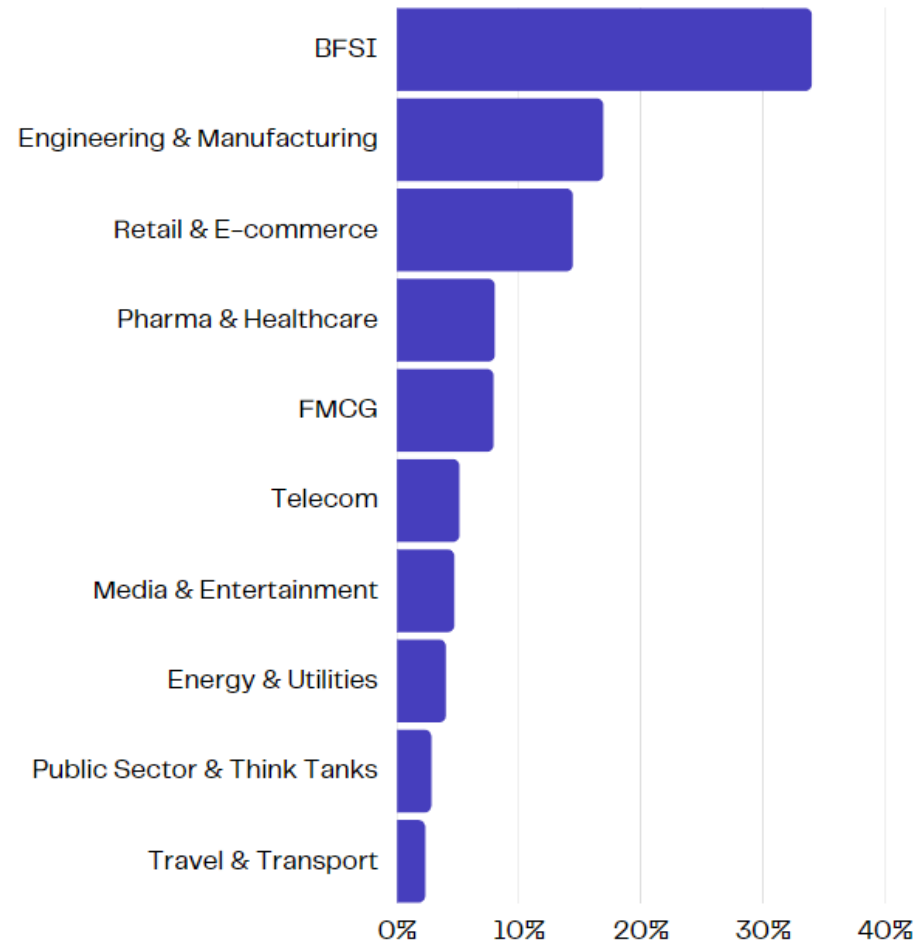
This development has facilitated the increase in the current market size of the Indian analytics industry to **\$45.4 Bn**. This signifies a growth of **26.5%** in the market size y-o-y. Last year, the analytics function garnered **\$35.9 Bn** in size. The analytics function experienced growth across almost **all companies, industry types, services rendered, and geographies.**

Analytics India Market Projections (% Market Share)



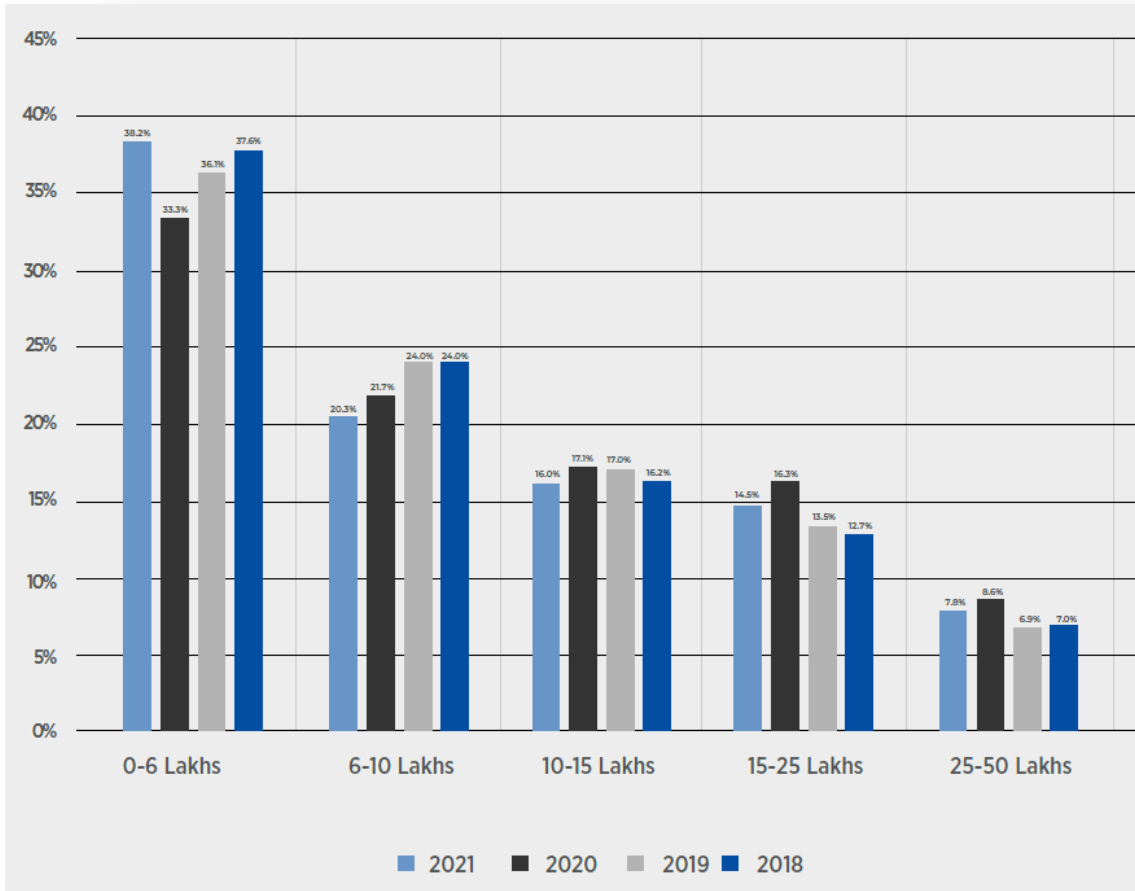
■ Analytics Market Size in India (in \$ Bn)

— Analytics market size as % of IT Industry (Secondary Axis)



Excludes IT and Consultancy firms

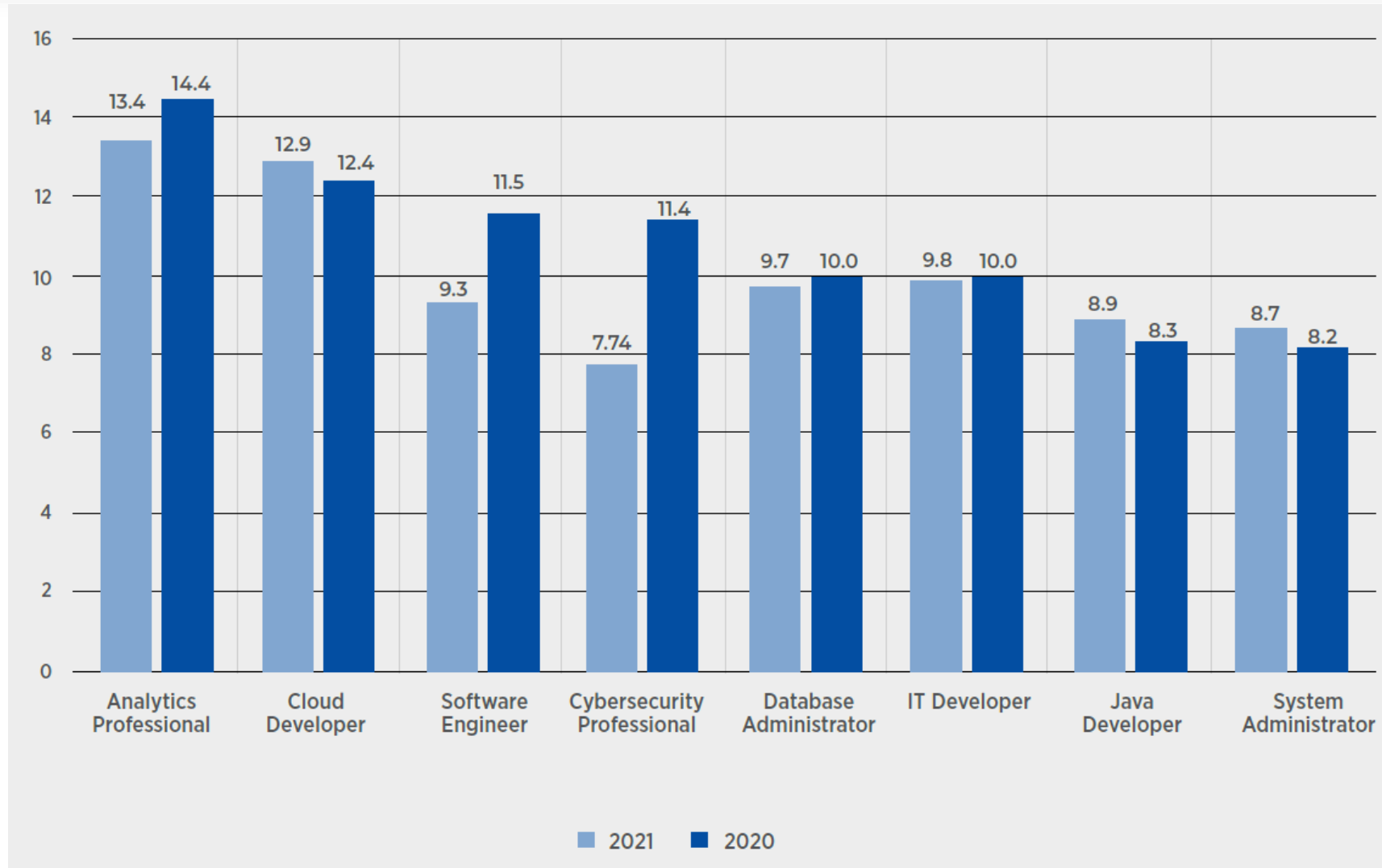
Salary Distribution Across Various Brackets



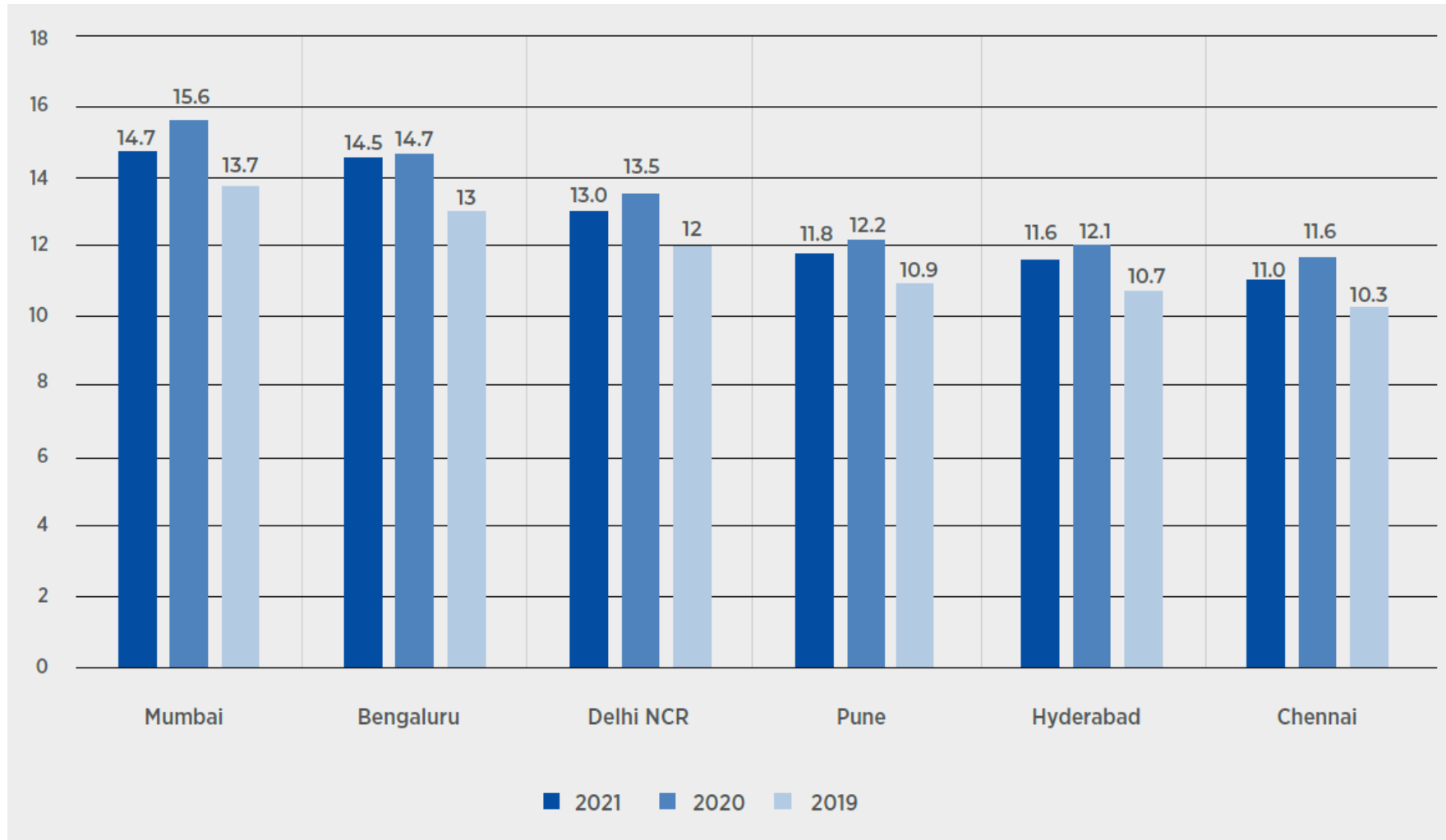
Key Highlights

- The median salary of analytics professionals in India in 2021 is INR 13.4 Lakhs – a 6.9% decline over the 2020 median salary of INR 14.4 Lakhs. Much of the decrease in salary can be attributed to the pandemic. In spite of this, the median has remained above the 2019 median.
- The proportion of the analytics professionals remains the highest in the entry and middle-income levels (0-6 Lakhs – 38.2% and 6-10 Lakhs – 20.3%). The salary cuts led to an increase in the percentage of Analytics professionals in lower brackets.
- However, 41.5% of all the analytics professionals fall under the higher income level (greater than 10 Lakhs per annum). The percentage of analytics professionals with greater than 10 lakh salary was 45.6% in 2020, signifying a decrease in the percentage of professionals in the bracket

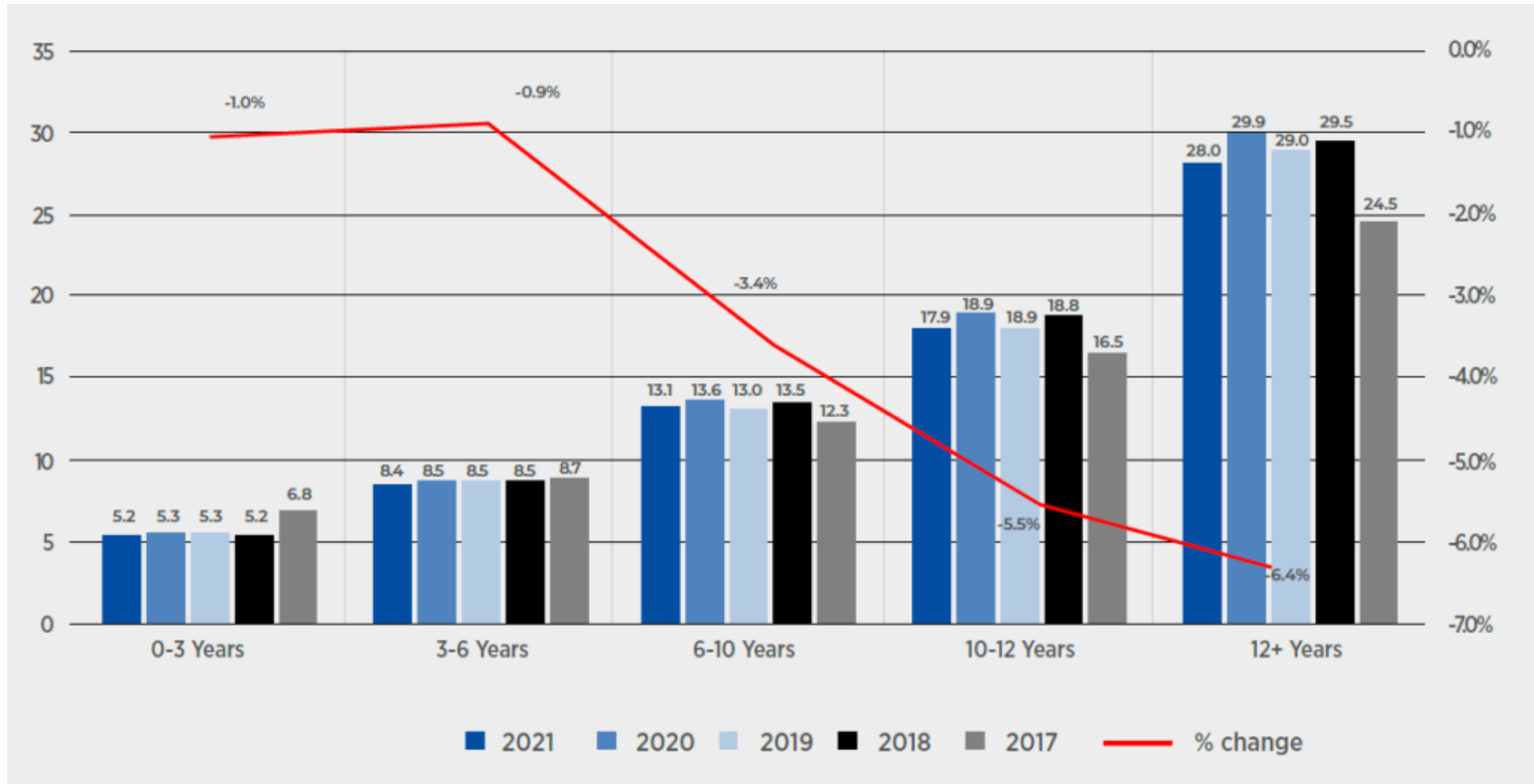
Salaries in Analytics Compared to Other it Roles



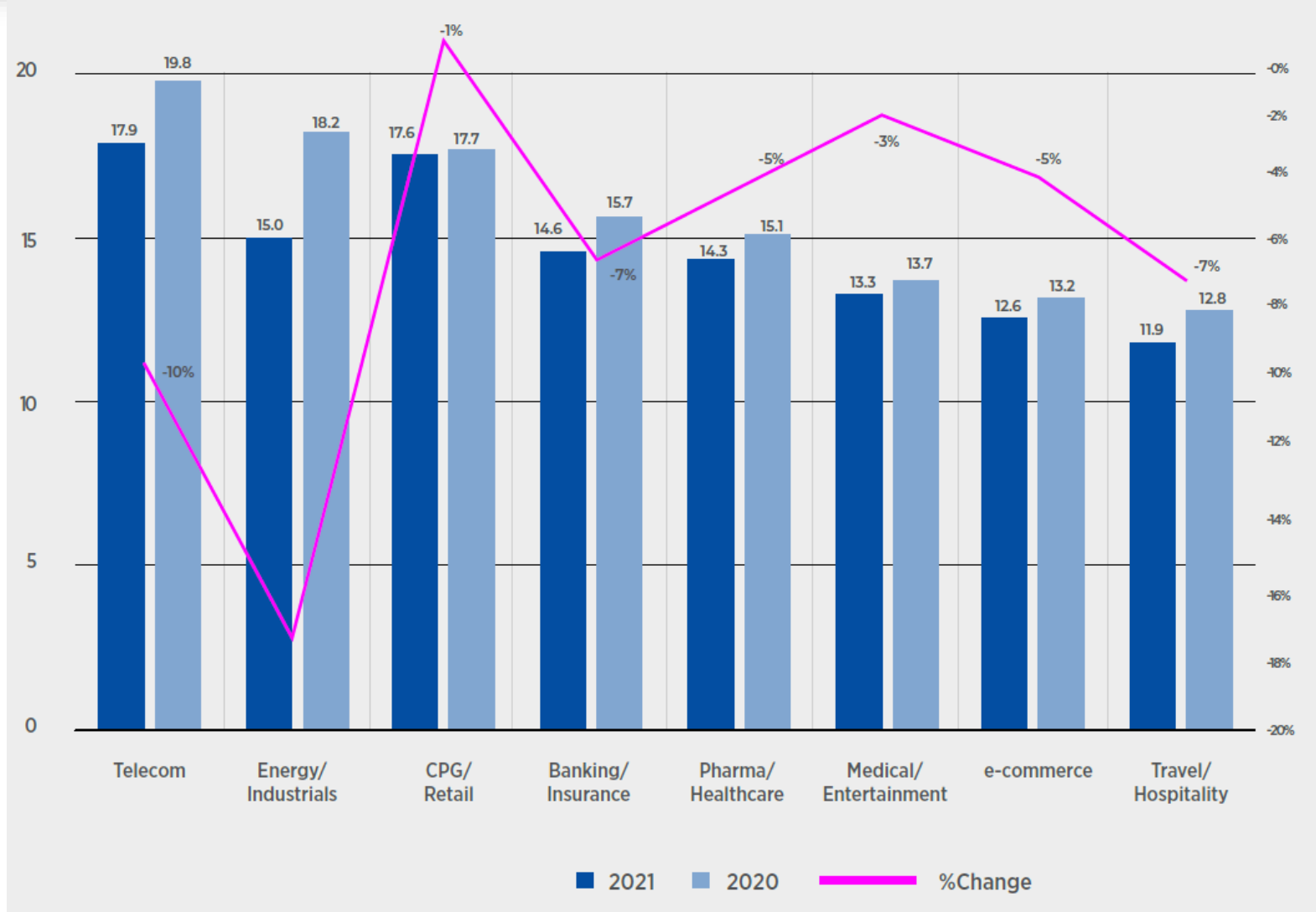
Salary Trends Across Cities



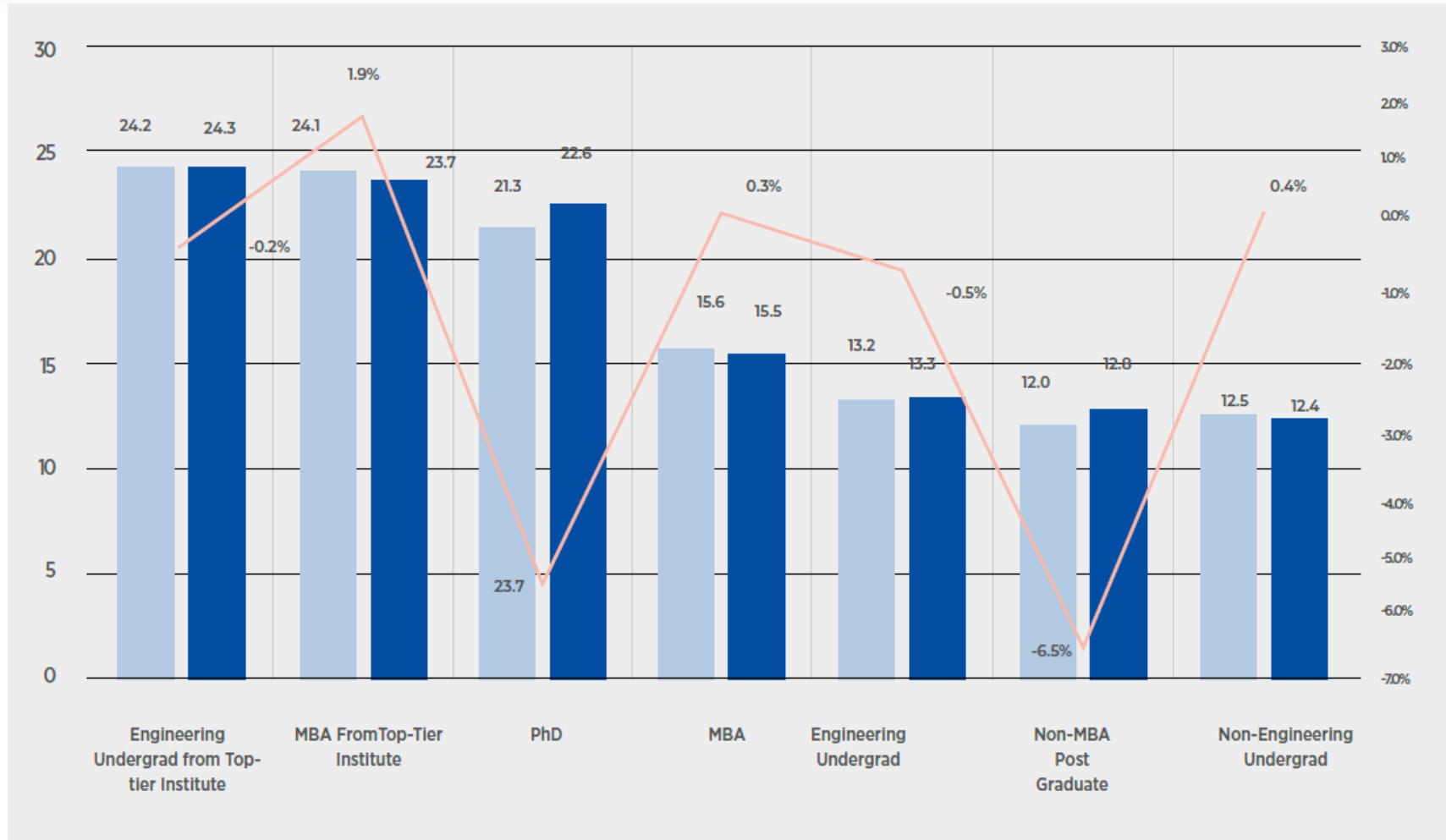
Salaries Across Experience Levels



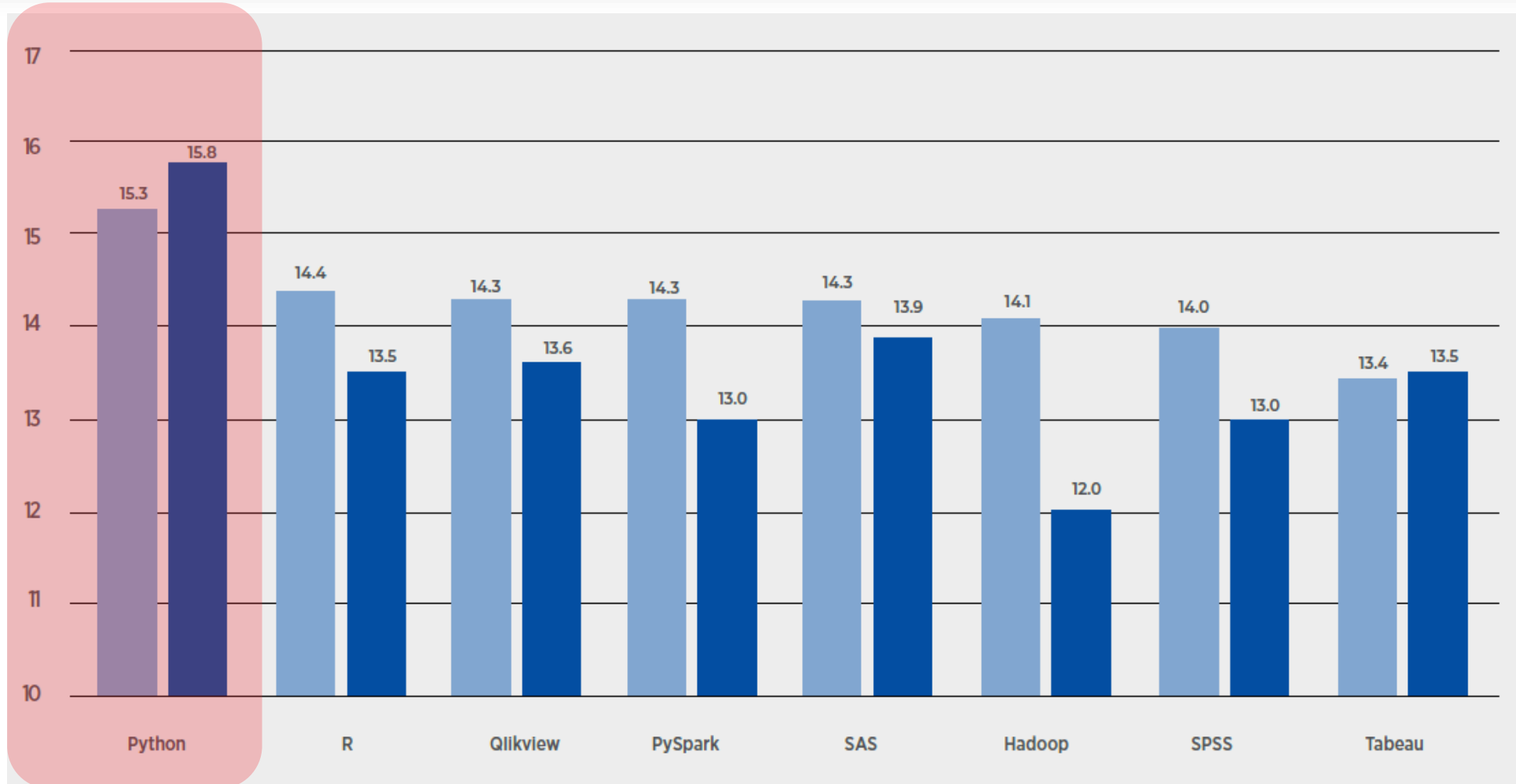
Salaries Across Industries



Salaries by Education Qualifications



Salaries by Tools



Why ?



Let's Explore simplicity of Python

□ How to write "Hello World" program

In C++

```
#include <iostream>
using namespace std;

int main() {
    cout << "Hello World!";
    return 0;
}
```

In Java

```
public class MyClass {
    public static void main(String[] args) {
        System.out.println("Hello World");
    }
}
```

In C#

```
using System;

namespace HelloWorld
{
    class Program
    {
        static void Main(string[] args)
        {
            Console.WriteLine("Hello World!");
        }
    }
}
```

In Python

```
print("Hello World")
```

Why Python? 11 Reasons...

Its Popularity and High Salary

Open Source and Free

Very Easy Learn for Non-programmer

Huge Community Support

Variety of IDEs
(*Pycharm, Jupyter, Spyder etc*)

More than **2 Lacs** Packages Available for Free

Attractive Packages for Graphical Analysis
(*Matplotlib, Plotly, Seaborn, ggplot*)

Highly effective packages for Machine Learning Algorithms
(*Scikit Learn*)

Used for Artificial Intelligence
(*Keras, Tensorflow, OpenCV*)

Useful for Scripting and Automation

Cross Platform Compatibility

Use of Python

Use Python for...

>>> More

Web Development: Django , Pyramid , Bottle , Tornado , Flask , web2py

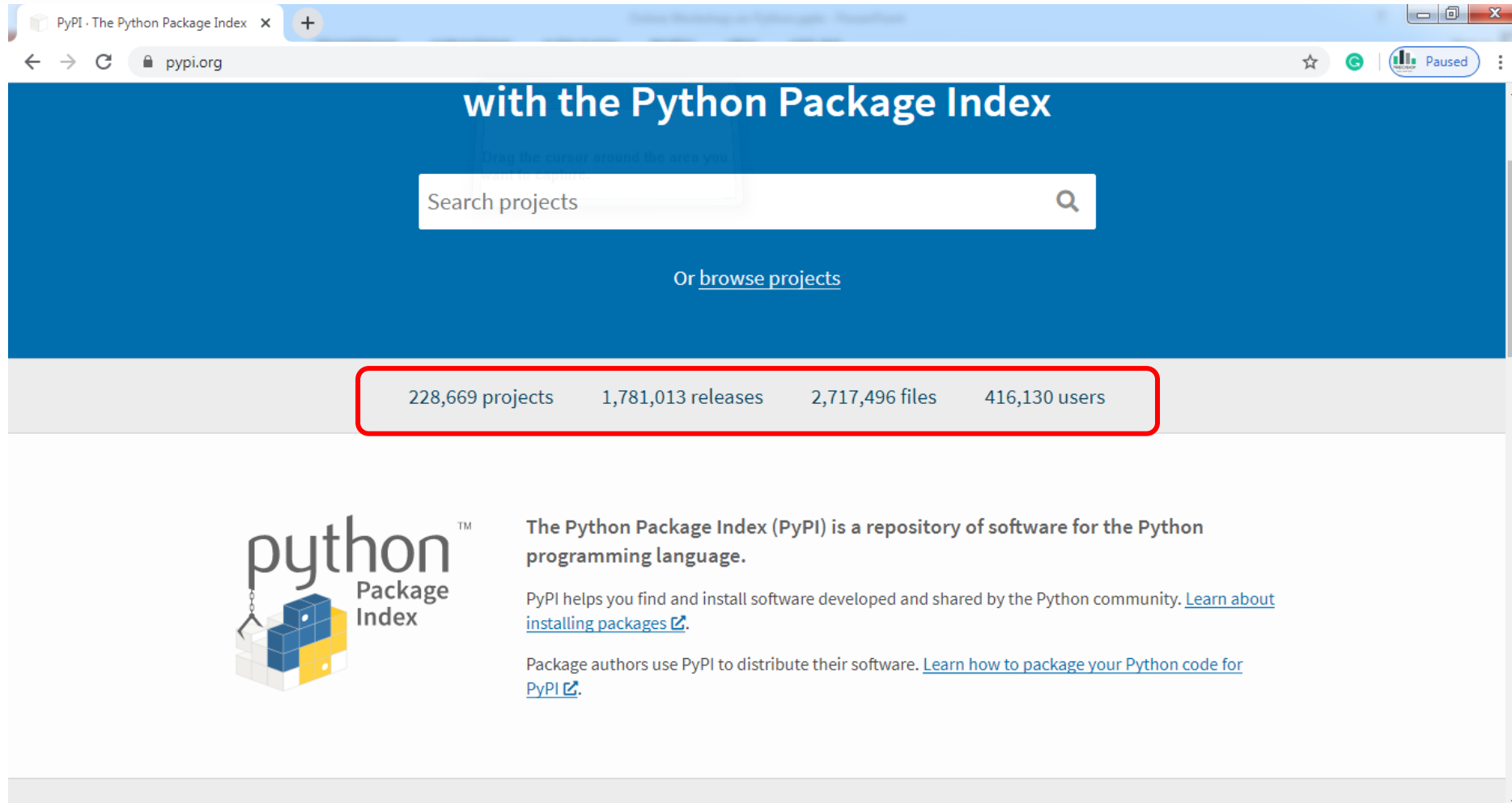
GUI Development: tkinter , PyGObject , PyQt , PySide , Kivy , wxPython

Scientific and Numeric: SciPy , Pandas , IPython

Software Development: Buildbot , Trac , Roundup

System Administration: Ansible , Salt , OpenStack

Packages & Projects available for FREE




The screenshot shows the PyPI website interface. At the top, there is a search bar with the placeholder text "Search projects" and a magnifying glass icon. Below the search bar, there is a link that says "Or browse projects". A red box highlights a statistics bar containing the following information: 228,669 projects, 1,781,013 releases, 2,717,496 files, and 416,130 users. Below this bar, the Python Package Index logo is displayed on the left, and on the right, there is a descriptive paragraph about PyPI as a repository for Python software, along with two links: "Learn about installing packages" and "Learn how to package your Python code for PyPI".

with the Python Package Index

Search projects

Or [browse projects](#)

228,669 projects 1,781,013 releases 2,717,496 files 416,130 users

 **python**™
Package Index

The Python Package Index (PyPI) is a repository of software for the Python programming language.

PyPI helps you find and install software developed and shared by the Python community. [Learn about installing packages](#).

Package authors use PyPI to distribute their software. [Learn how to package your Python code for PyPI](#).

Career Opportunities for Python Programmers

The screenshot shows a Google search for "job opportunities in python India" in Vadodra, Gujarat. The search results are filtered by "Past month". The first result is for a "Python Developer - FFMPEG" position at Numerator, posted 28 days ago, available anywhere, and work from home. The detailed view of this job shows it is a full-time position. The job description is partially visible, mentioning a market research company with a deep tech stack including Python, C#, Java, Kotlin, React, Angular, and Django.

← Google X
Vadodra, Gujarat

Jobs Saved Alerts

1 x Title Location **Date posted** Type Company type Employer [Send feedback](#) [Learn more](#)

All Past day Past 3 days Past week **Past month**

Python Developer - FFMPEG
Numerator
Anywhere
via LinkedIn
28 days ago Work from home

Junior Python Developer
Luxsh Technologies
Vadodra, Gujarat
via LinkedIn
27 days ago Full-time

Python + SQL Developer
Niyantras
Vadodra, Gujarat
via LinkedIn
21 days ago Full-time

Python Developer - FFMPEG SAVE

Numerator
Anywhere

[Apply on LinkedIn](#)

28 days ago Work from home Full-time

Job Description

What We Do and How?

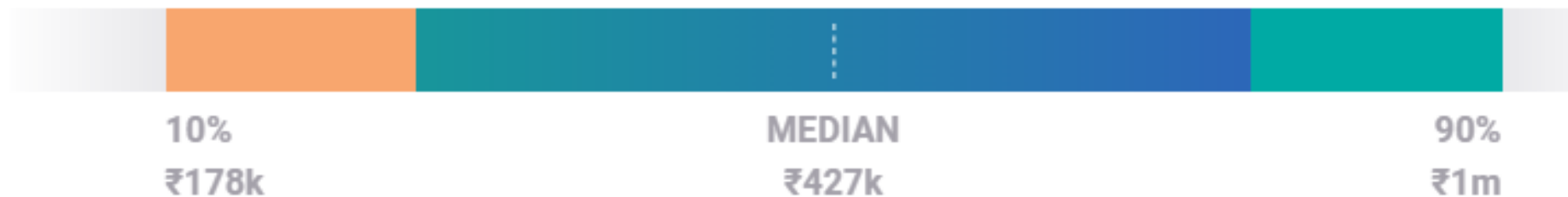
We are a market research company, revolutionizing how it's done! We mix fast paced development and unique approaches to bring best practices and strategy to our technology. Our tech stack is deep, leveraging several languages and frameworks including Python, C#, Java, Kotlin, React, Angular, and Django among others. Our engineering hurdles sit at the intersection of technologies ranging from mobile, computer vision and crowdsourcing, to machine learning and big data analytics.

New job alerts

Pay Scale for Python Developer – Entry Level

Entry-Level Python Developer Salary

The average salary of entry-level Python developer salary in India is ₹427,293.



Source: <https://www.upgrad.com/blog/python-developer-salary-india-freshers-experienced/>

Pay Scale for Python Developer – Mid Level

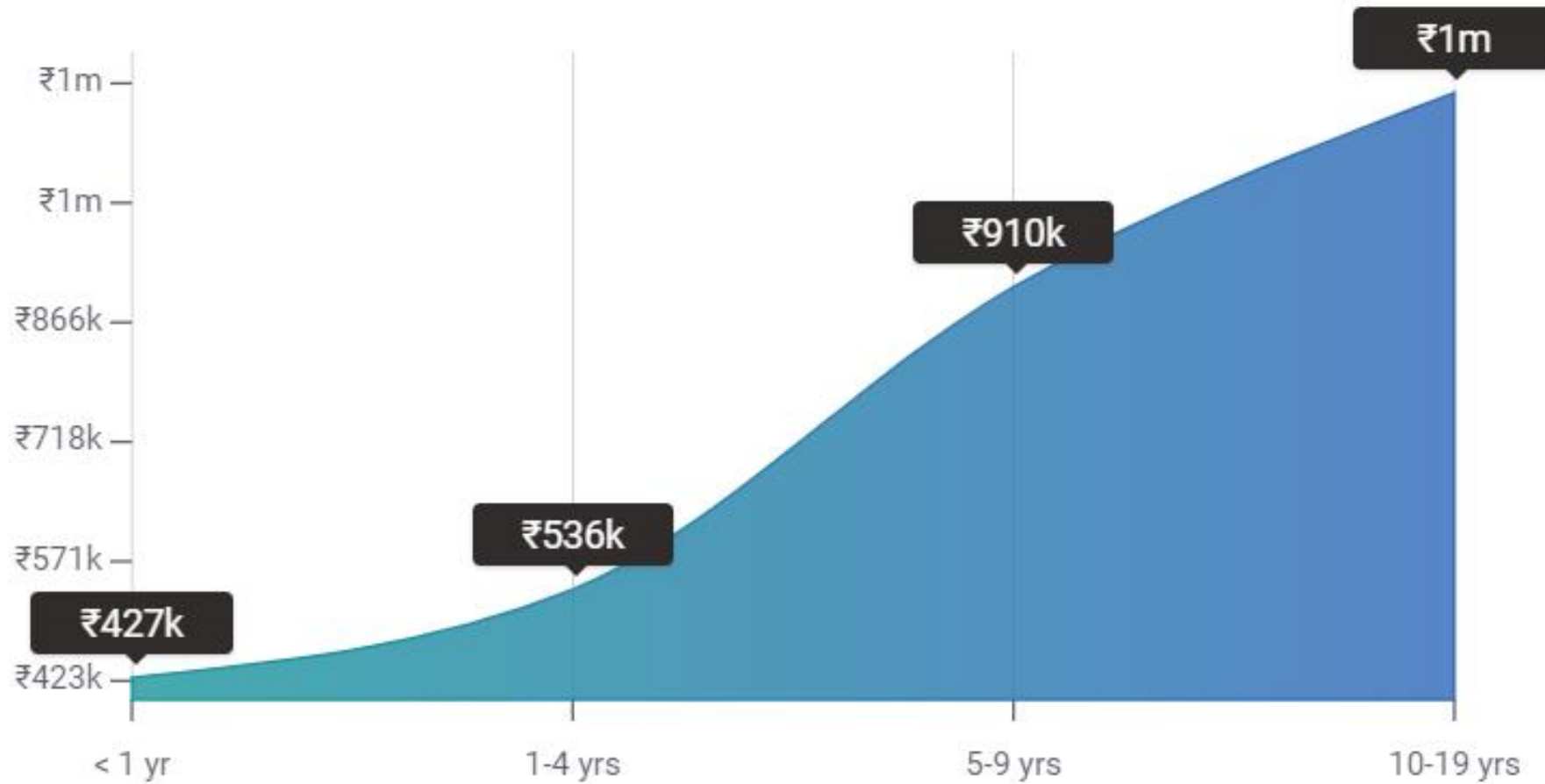
Mid-Level Python Developer Salary

The average salary of a mid-level Python developer salary in India is ₹909,818.



Source: <https://www.upgrad.com/blog/python-developer-salary-india-freshers-experienced/>

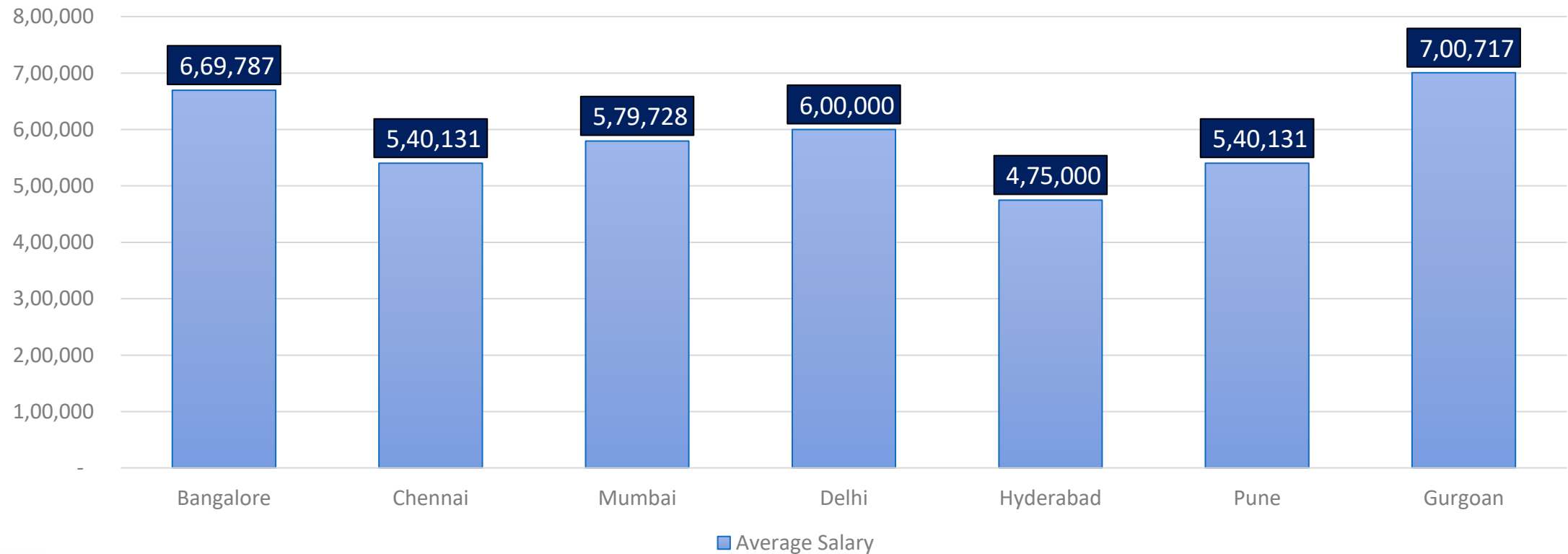
Python Developer Salary WRT Experience



Source: <https://www.upgrad.com/blog/python-developer-salary-india-freshers-experienced/>

Salary Package

Average Salary



Source: <https://www.upgrad.com/blog/python-developer-salary-india-freshers-experienced/>

Packages for Python Programmer



Products Solutions Why Payscale? Research & Insights Compensation Trends For Individuals

Log In

Search salaries

India / Skill / Python / Salary

Salary for Skill: Python

Overview

Salaries

Related Skills

How should I pay?

Price a Job

What am I worth?

Find market worth

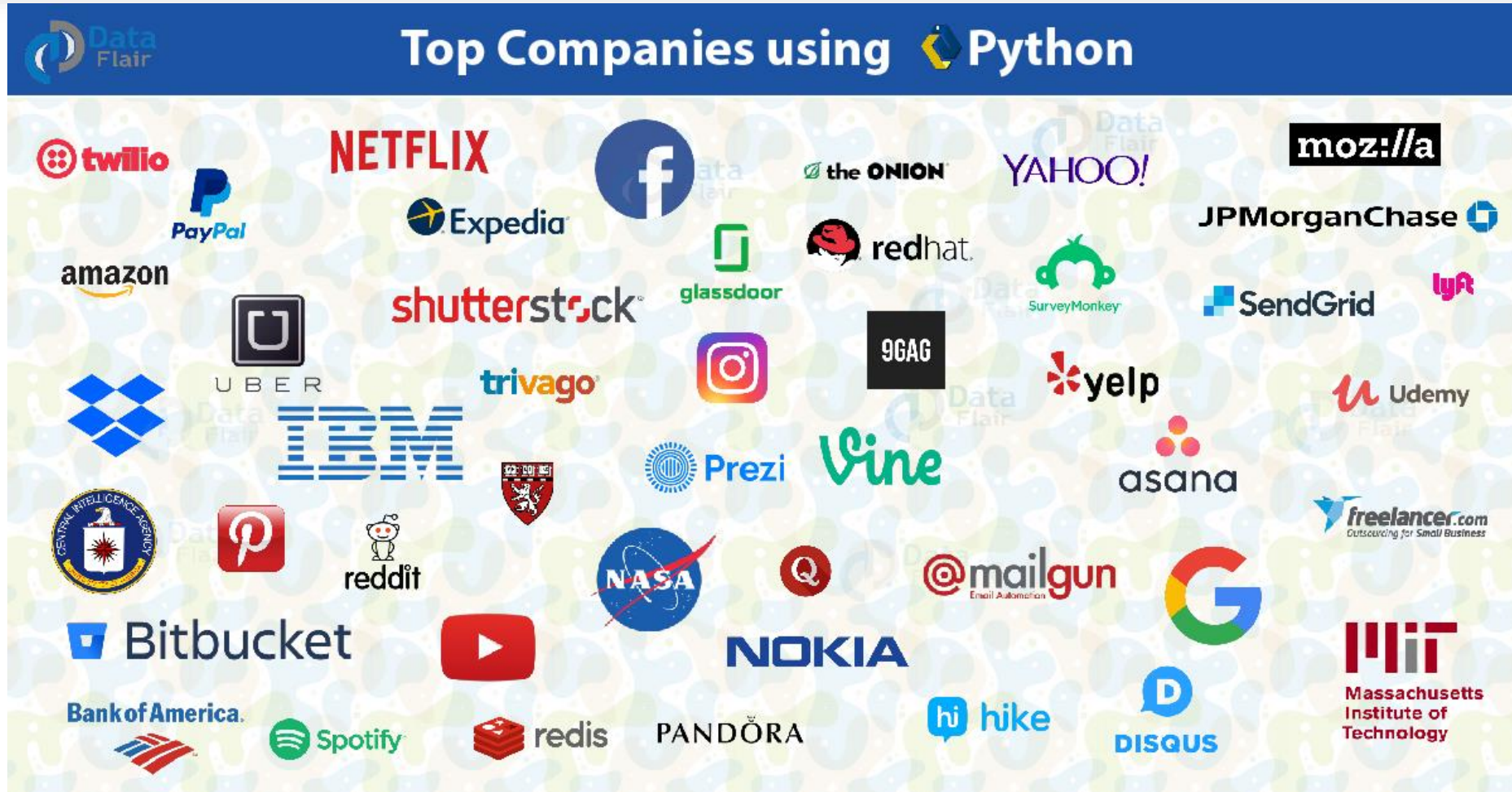


₹782k / year

Avg. Base Salary (INR)

Source : <https://www.payscale.com/research/IN/Skill=Python/Salary>

Companies using Python

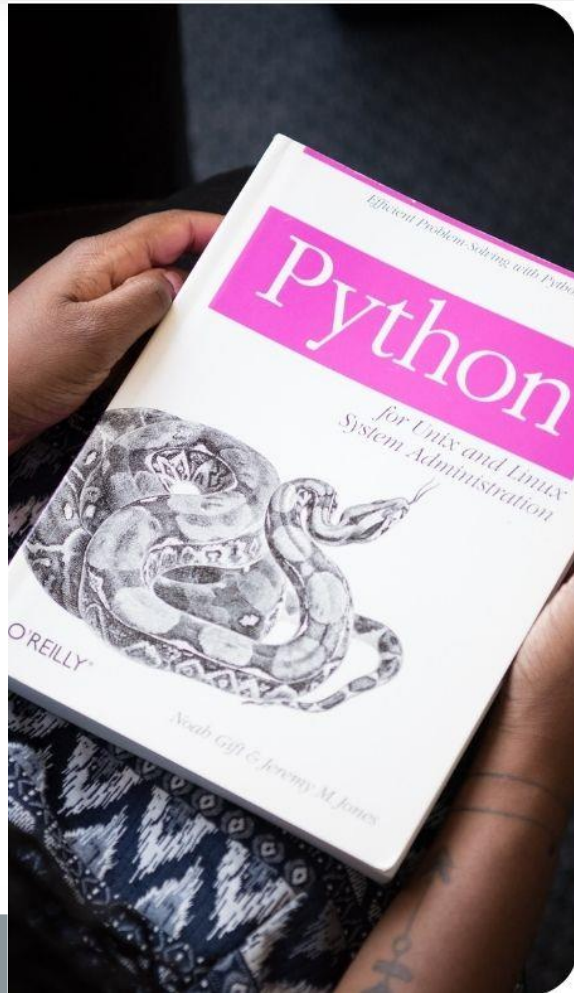


Source: <https://data-flair.training/blogs/python-career-opportunities/>

OUR UPCOMING WORKSHOP ON PYTHON



Python for Data Analytics



Python for Data Analytics

Transform your data into impactful insight today!



27 TO 31 OCT-2021



7:00 PM TO 9:00 PM



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999 INR



Instruction-Led Live Classroom



Curriculum Designed by Experts



Hands-on Coding



Real-life Project discussion



Softcopy of Material



Exam based Certificate



Recording Access for 6 Months

Course Content

Introduction to Python

- Installation Python
- Options for IDE (Integrated Development Environment)
- Installation of Anaconda Distribution and Jupyter Framework

Basic Operations in Python

- Arithmetic Operations
- Variable Assignment
- String Operator
- Introduction to Lists

Data types in Python

- Object, List, Array

Concept of Looping

- For Loop
- While Loop

Custom Function

- Define your own function

Introduction to Numpy Library

Data Handling in Python (Using Pandas Library)

- Import Pandas Library
- Import from .txt, .csv, .xls, html file

Course Content

Working with Data Frame (Using Pandas Library)

- Subset of the Data
- Adding / Deleting columns or Rows of the data
- Numeric Filter, String Filter, Filter with Multiple Conditions
- Sorting of the Data
- String Operations (Upper Case, Lower Case, Title Case, Replace)

Summarize data

- Find Descriptive Statistics using a single command
- Use of Group by function for Cross Tabulation

Pivot Table in Python (Numpy and Pandas Libraries)

Types of Data

- Qualitative Data (Nominal and Ordinal)
- Quantitative Data (Interval and Ratio)

Descriptive Statistics

- Measurement of Central Tendency (Mean, Median, Mode)
- Measurement of Spread (Range, Variance, Standard Deviation)
- Quartile, Frequency Table

Data Visualization (Using Matplotlib Library)

- Bar chart, Histogram, Pie Chart, Box Plot, Scatter Plot, Matrix Plot



Q & A



Team

Snaps

Clients

Services

History

About



WELCOME TO
STAT MODELLER
ROBUST KIT OF SOLUTION

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MESSAGE FROM

HIREN KAKKAD

CEO & CO-FOUNDER

Data analysis is an immense part of any problem solving or research. In industry as well as in research, data plays a vital role. Data is collected in a large quantity.

But, the challenges are which techniques to be used and how?

To overcome these challenges, Stat Modeller provides the solutions.



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HISTORY

Stat Modeller is formed in 2019 providing services related to training and consultancy for Operational Excellence, Application of Statistical Tools and Data Science Tools to solve the problems of various segments.



History

About

TRAINING AND CONSULTANCY

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Data Science

Machine Learning
R & R Studio
Python
SPSS
SAS
Minitab
Power BI
Tableau
Basic Excel &
Advanced Excel



Operational Excellence

Blended Approach
Six Sigma
Lean
5-S
TPM
Kaizen
Kanban
QMS
SPC and SQC



Research Projects

Research Projects
Survey Analysis
Marketing
Research etc.



Universities & Colleges

Workshops
Trainings
Certification
Courses for
Faculties and
Students



Services



History

About

Team

Snaps

Agro Economics

Dairy Economics

Home Science

**Mechanical
Engineering**

**Pharmaceutical
Sciences**

**Financial
Management**



Clients

**Management
Studies**

**Marketing
Management**

Process Industry

Ceramic Industry

**Plastic Process
Industry**

**Chemical
Industry**



Clients

Services

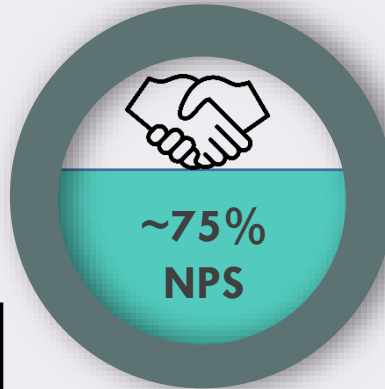
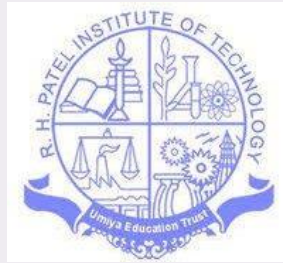
History

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adani | Electricity



Services

History

About

Training on R at UPL



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PROGRAMS WE DELIVERED



“Basics of SPSS” at BVM Engineering College



“Base SAS” at Dept. of Statistics, Sardar Patel University



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“Basics of Python”, Dept. of Statistics, Sardar Patel University



“Role of SPSS” at DDU Nadiad

PROGRAMS WE DELIVERED



**“Training on R” at
Mumbai University**



**“Training on R” at
AERC, Sardar Patel University**



**“Training on R” at Anand Agriculture
University, Vallabh Vidyanagar**



**“Training on R” at
HRDC, Gujarat University**



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HIREN KAKKAD

CEO & CO-FOUNDER

Expert in Data Science, Business
Transformation and Research
Project Analysis



MEHUL GANDHI

BUSINESS ASSOCIATE

Expert in Business
Transformation and Excel



KAPIL VALAND

BUSINESS ASSOCIATE

Expert in Data Science,
Business Transformation and
Research Project Analysis

London, UK



Let's get connected



D-503, Sharnam Happy Homes,
Sayaji Township Road, Sayajipura,
Vadodara - 390019



+91 9898233268



contact@statmodeller.com



www.statmodeller.com

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Sayaji Township Road,
Sayajipura, Vadodara - 390019



+91 9898233268



ceo@statmodeller.com



www.statmodeller.com

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