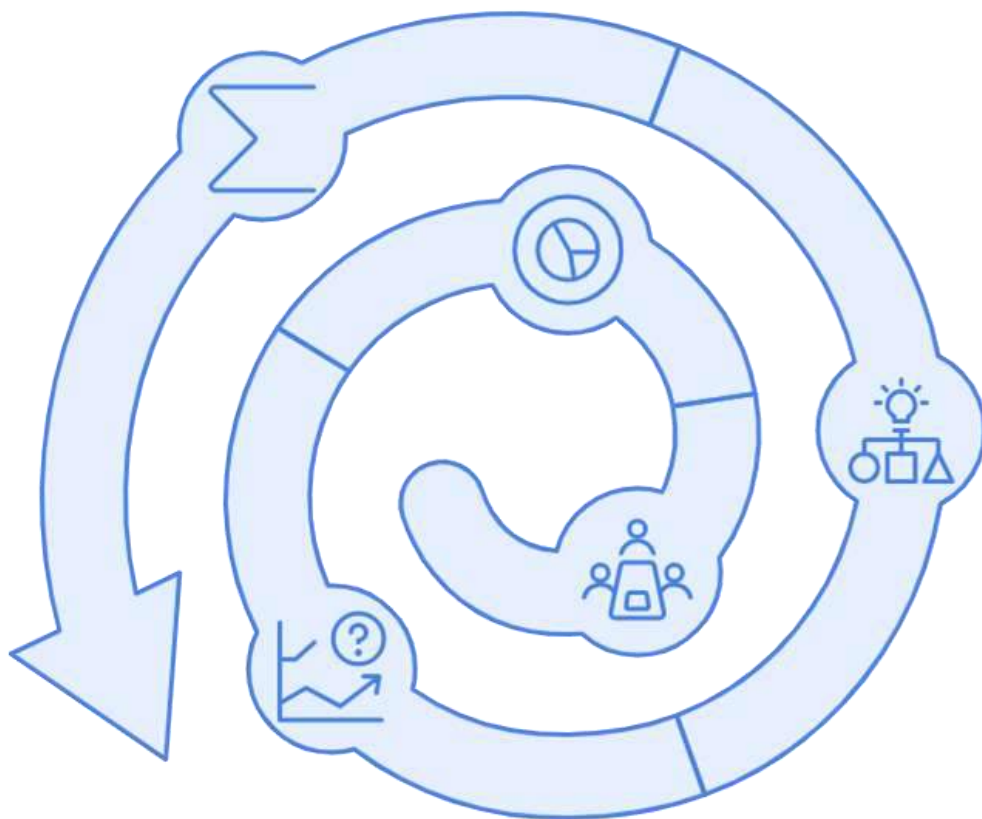UNIVERSITY
OF WARSAW

Skill Trends Insight

Porimol Chandro
Anastasiia Sviridova
Łukasz Janisiów

Agenda

01 Project Introduction

02 Analytical Insights

03 In-demand Skill Segmentation
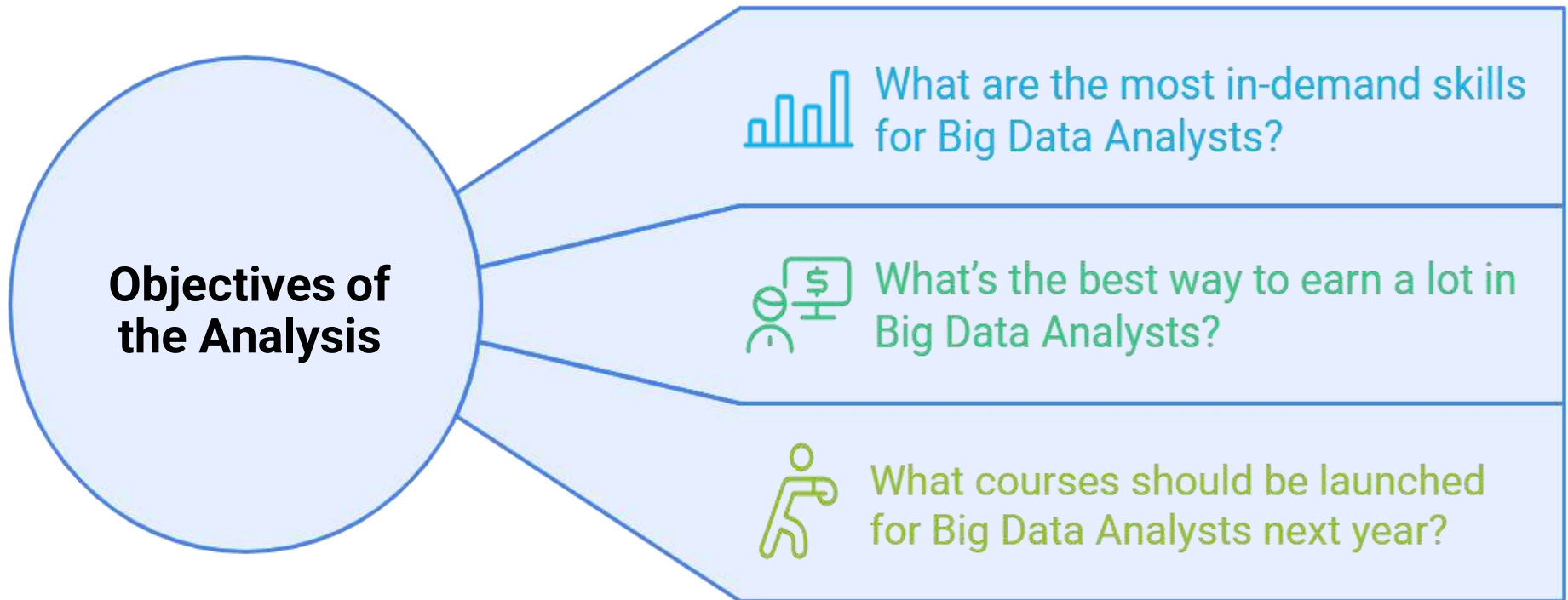
04 Recommendation based on findings

05 Conclusion

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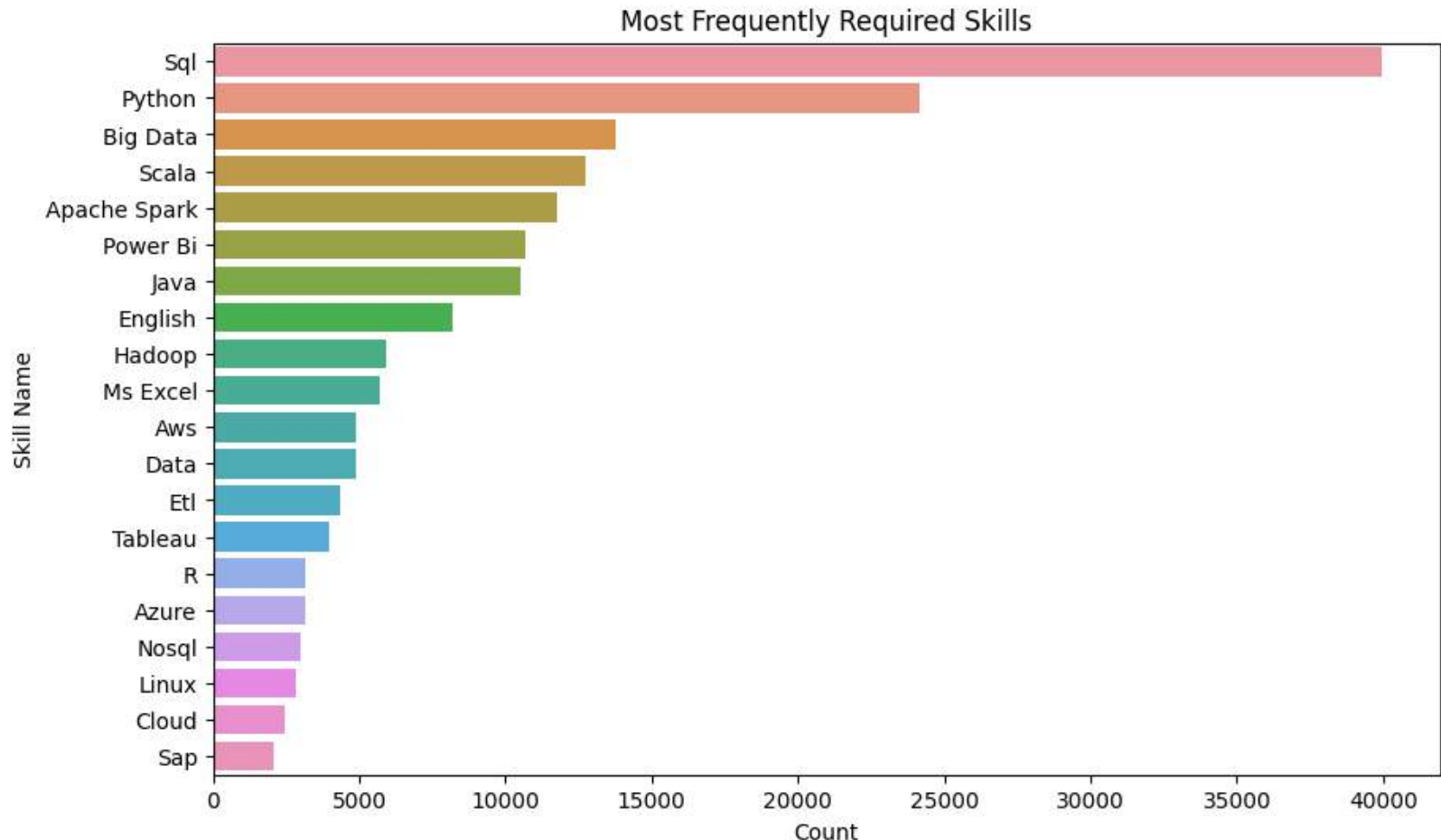
Project Introduction

Client Information

- 100 employees

- EdTech Industry

- Cutting-edge educational courses and programs

- Data Source:
  JustJoinIT job offers data

Project Introduction
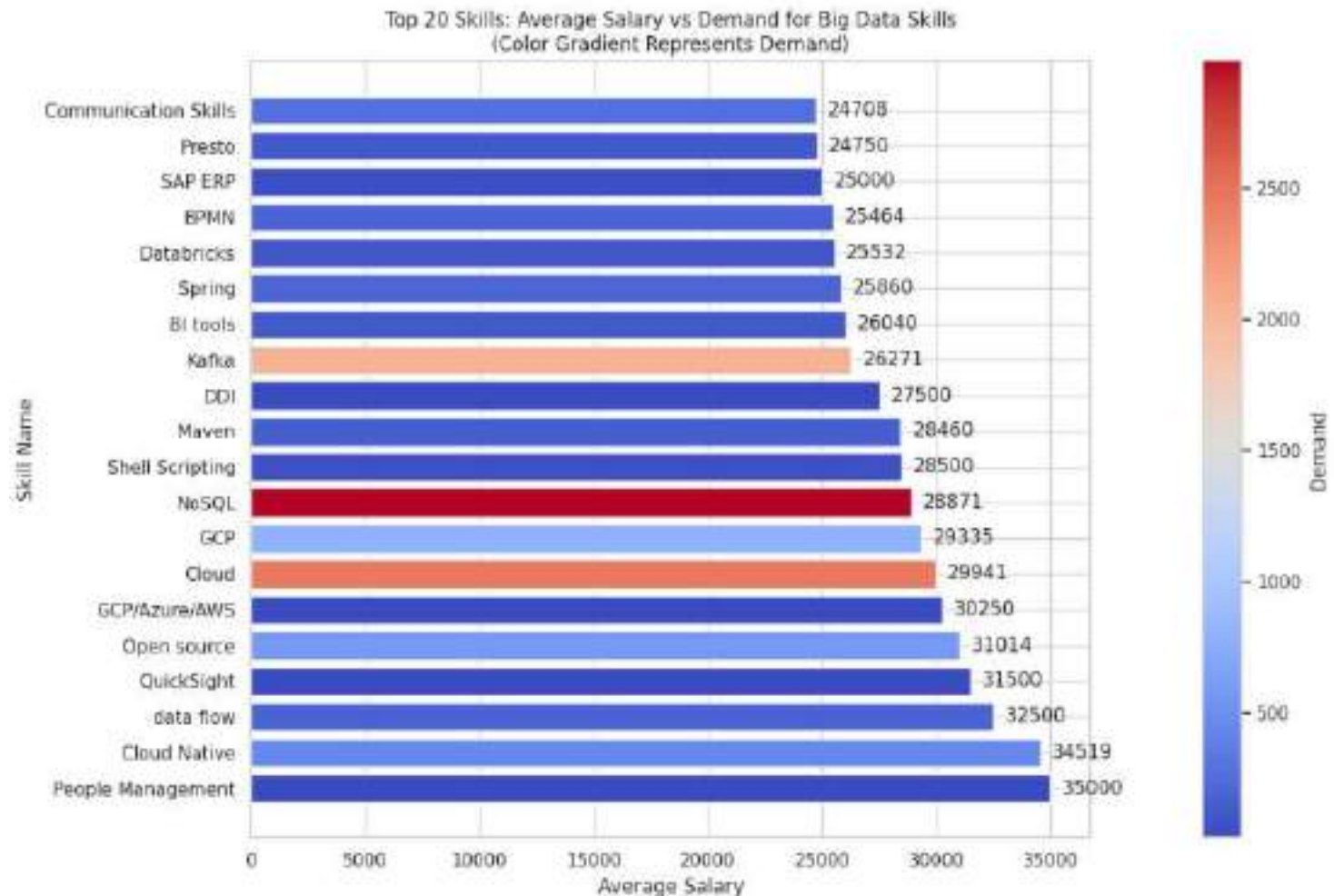

Objectives of the Analysis

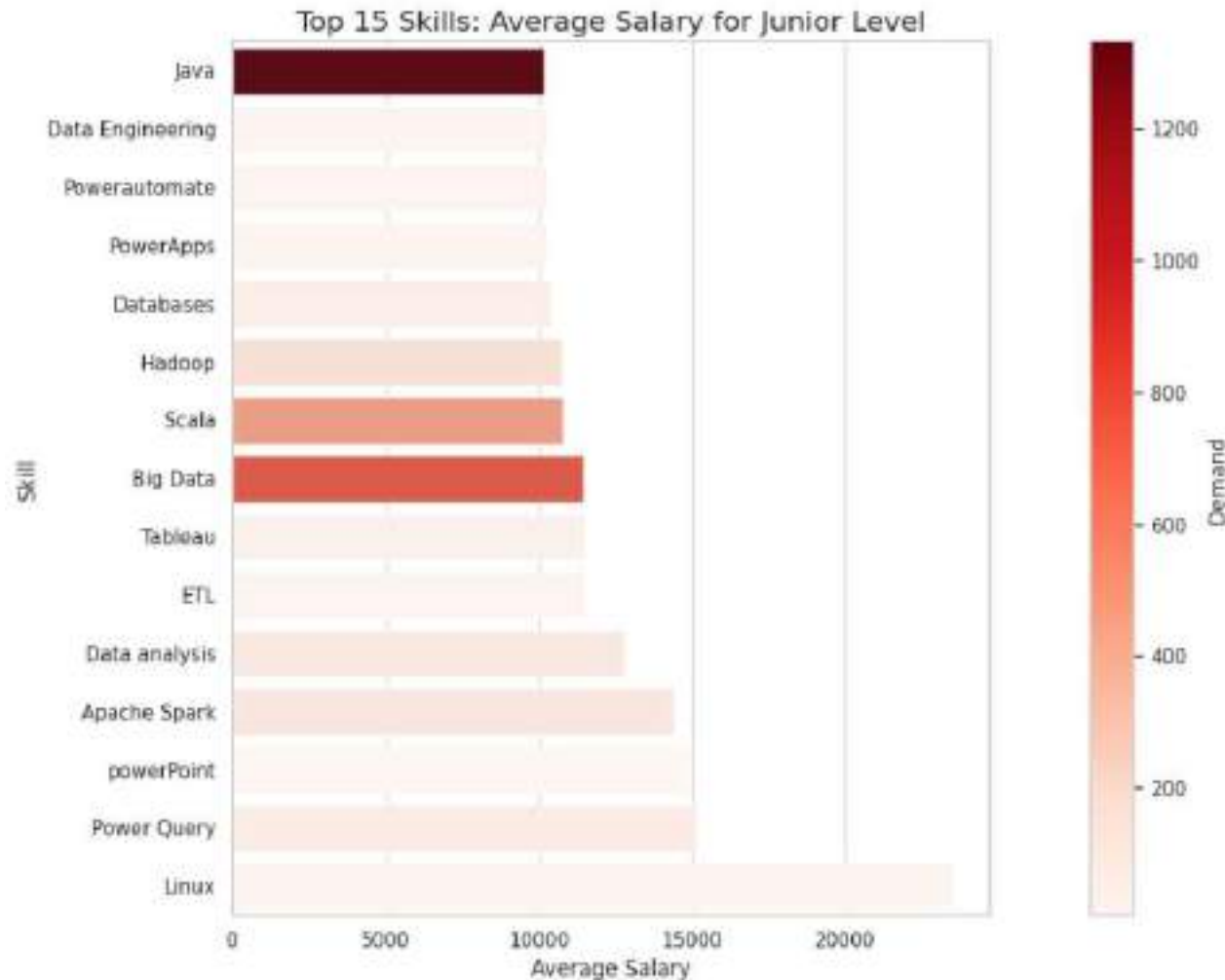What are the most in-demand skills for Big Data Analysts?

What's the best way to earn a lot in Big Data Analysts?

What courses should be launched for Big Data Analysts next year?

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Analytical Insights

What are the most in-demand skills for **Big Data Analysts**?

Most Frequently Required Skills

Analytical Insights

What are the most in-demand skills for **Big Data Analysts**?

Top 20 Skills: Average Salary vs Demand for Big Data Skills
(Color Gradient Represents Demand)

Analytical Insights

What's the best way to earn a lot in **Big Data Analytics**?

Top 15 Skills: Average Salary for Junior Level

Analytical Insights

What's the best way to earn a lot in **Big Data Analytics**?

Top 15 Skills: Average Salary for Mid Level

Analytical Insights

What's the best way to earn a lot in **Big Data Analytics**?

Top 15 Skills: Average Salary for Senior Level

In-demand Skill Segmentation [Contd.]
The most future proof skills

Programming Languages

Python
Scala
Java
R
Kotlin

Analytics Tools

Power BI
Google Analytics
Tableau
Qlikview
Looker

Cloud Platforms

AWS
Azure
GCP

Big Data Tools

Apache Spark
Hadoop
Kafka
Google Big Query
Cloudera

Databases

SQL
Nosql

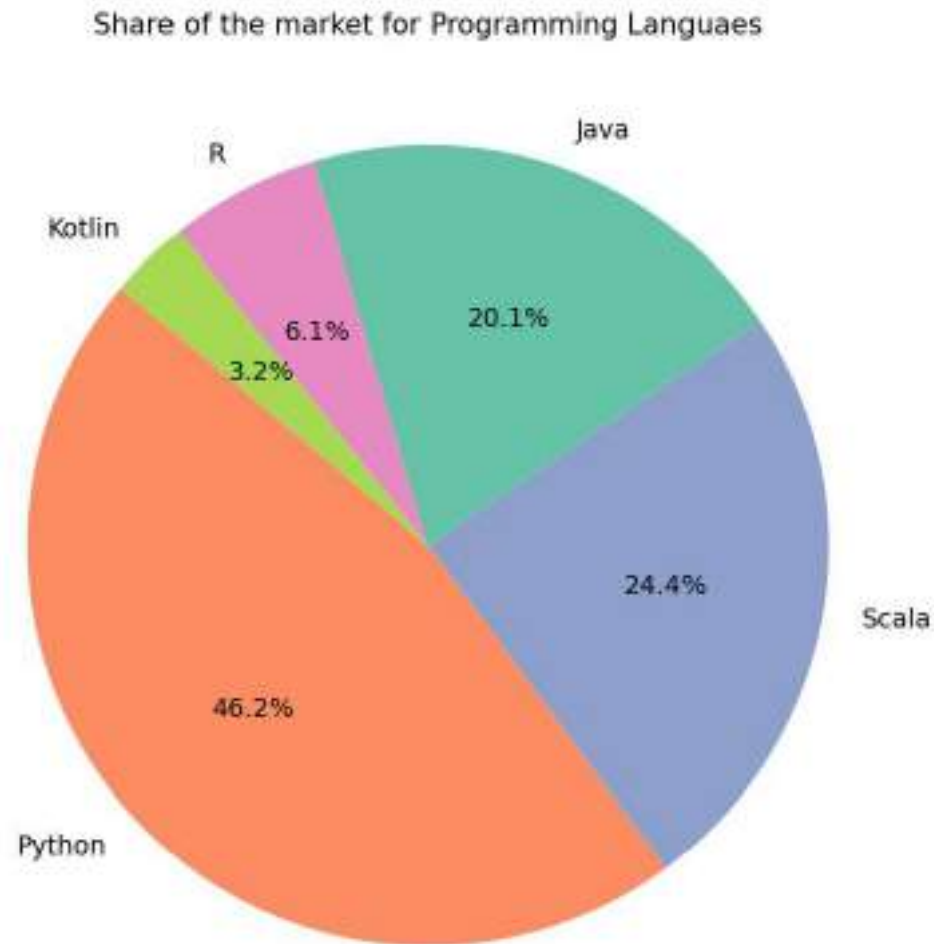# Programming Languages
Temporal Trends in Demand for Programming Languages
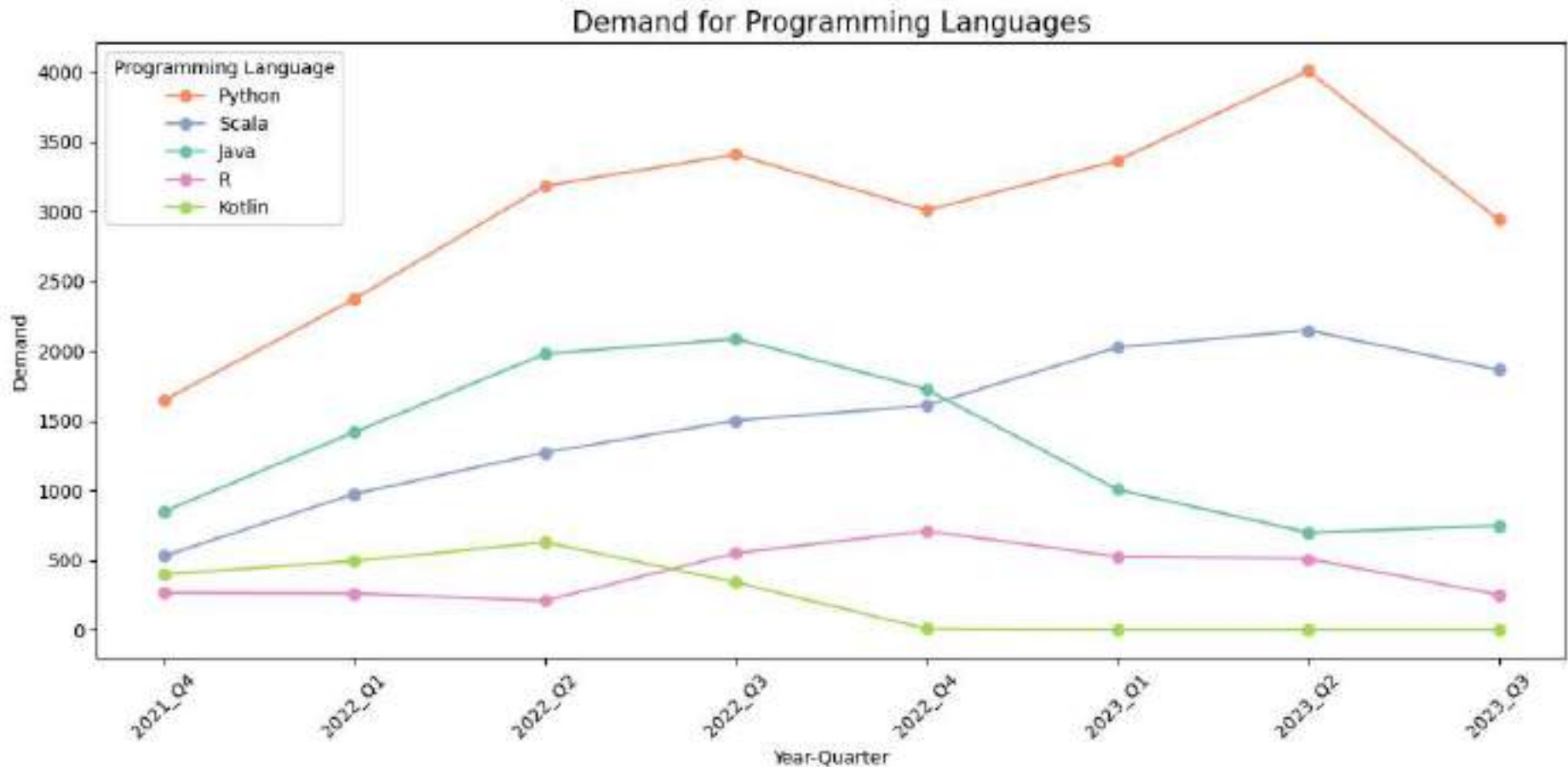
Programming Languages
Market Distribution of Programming Languages
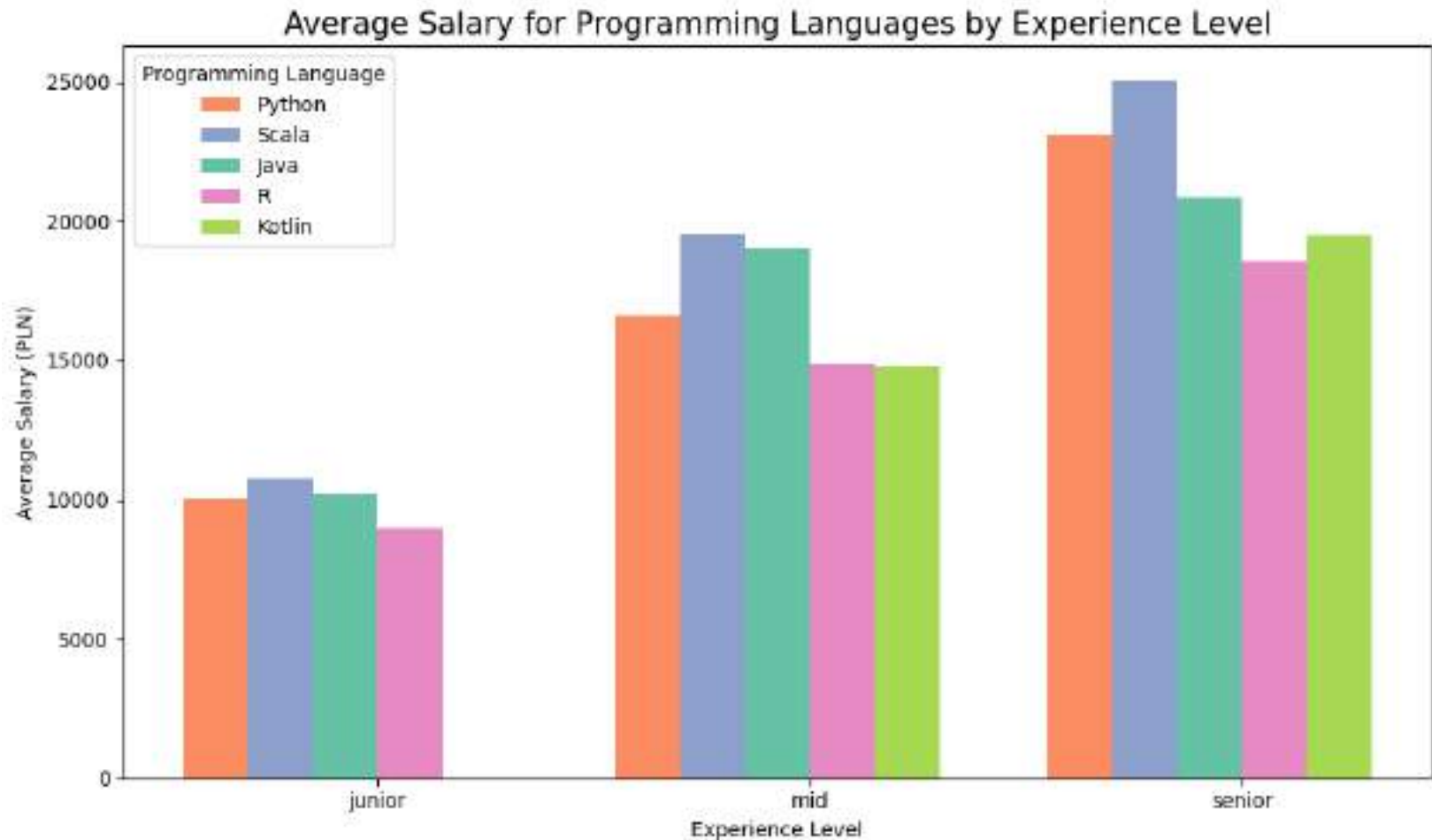
Share of the market for Programming Languaes

Java 20.1%

R 6.1%

Kotlin 3.2%

Scala 24.4%

Python 46.2%

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Programming Languages

Average Salary for Programming Languages by Experience Level

In-demand Skill Segmentation [Contd.]
The most future proof skills

Programming Languages
Python
Scala
Java
R
Kotlin

Analytics Tools
Power BI
Google Analytics
Tableau
Qlikview
Looker

Cloud Platforms
AWS
Azure
GCP

Big Data Tools
Apache Spark
Hadoop
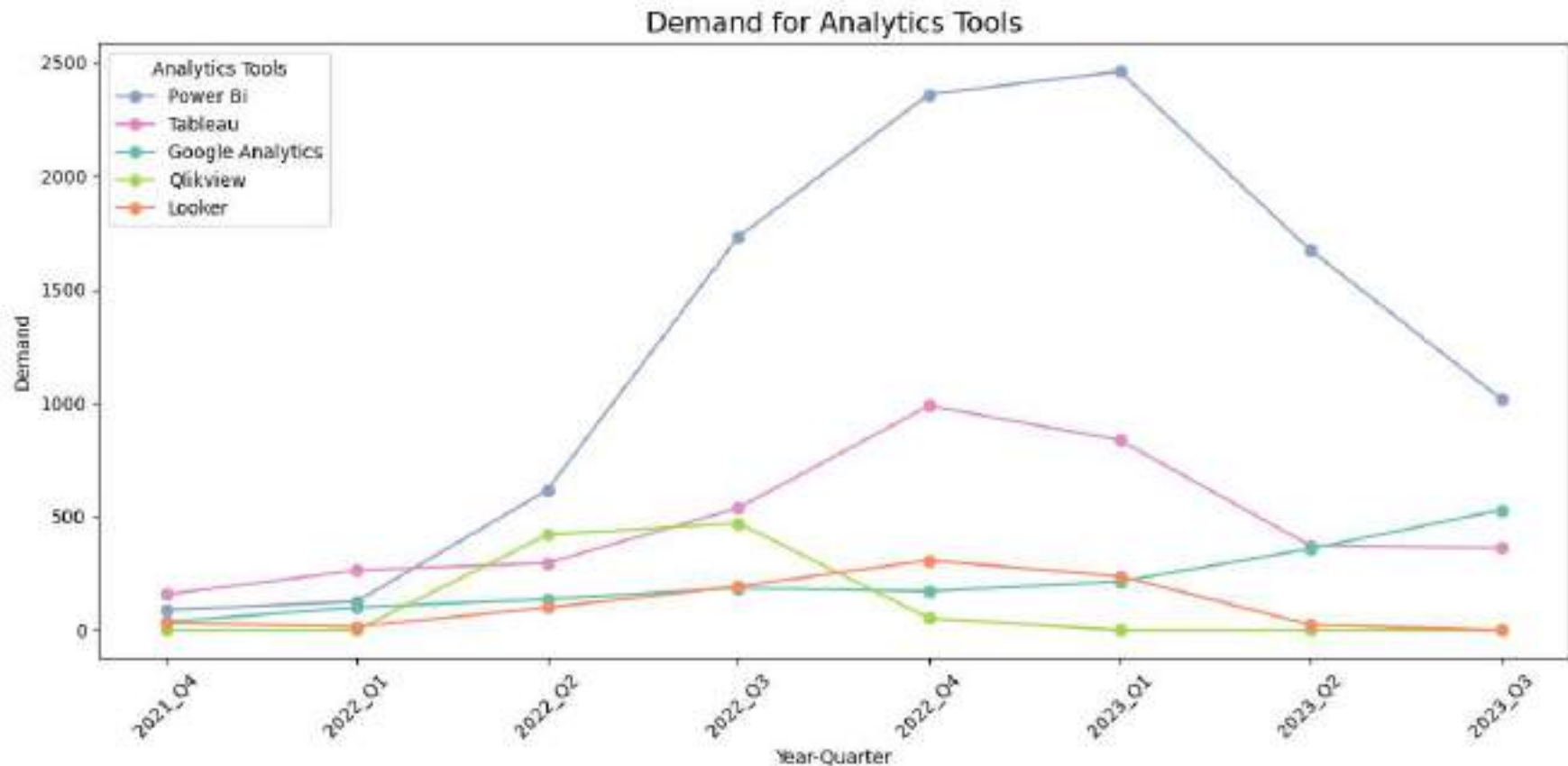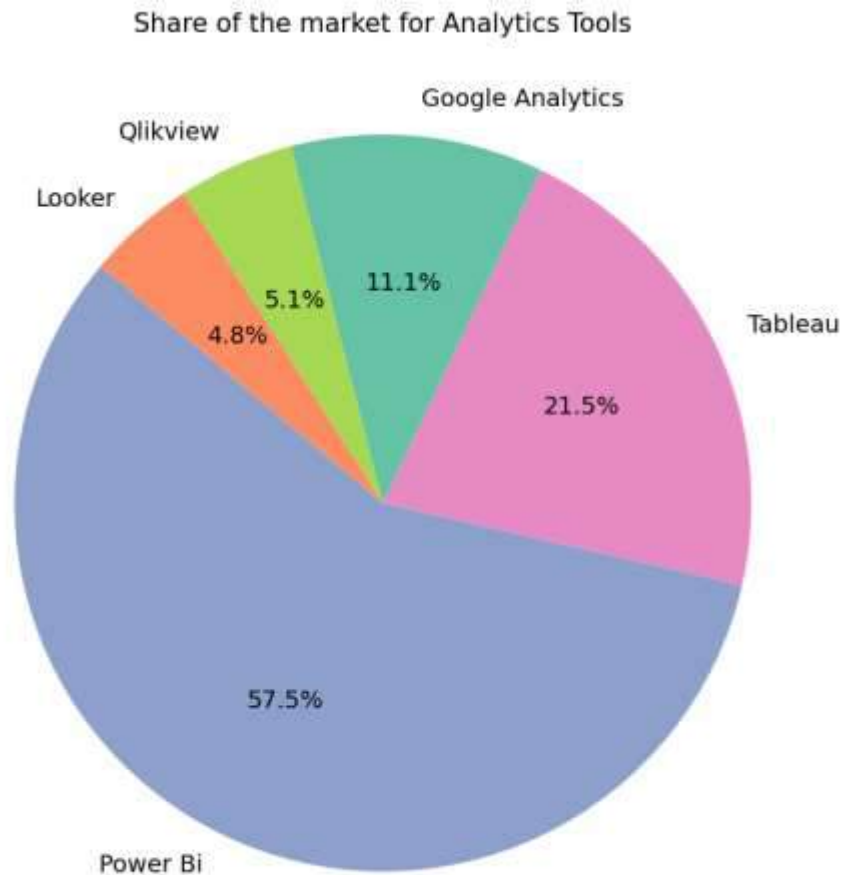Kafka
Google Big Query
Cloudera

Databases
SQL
Nosql

Analytics Tools
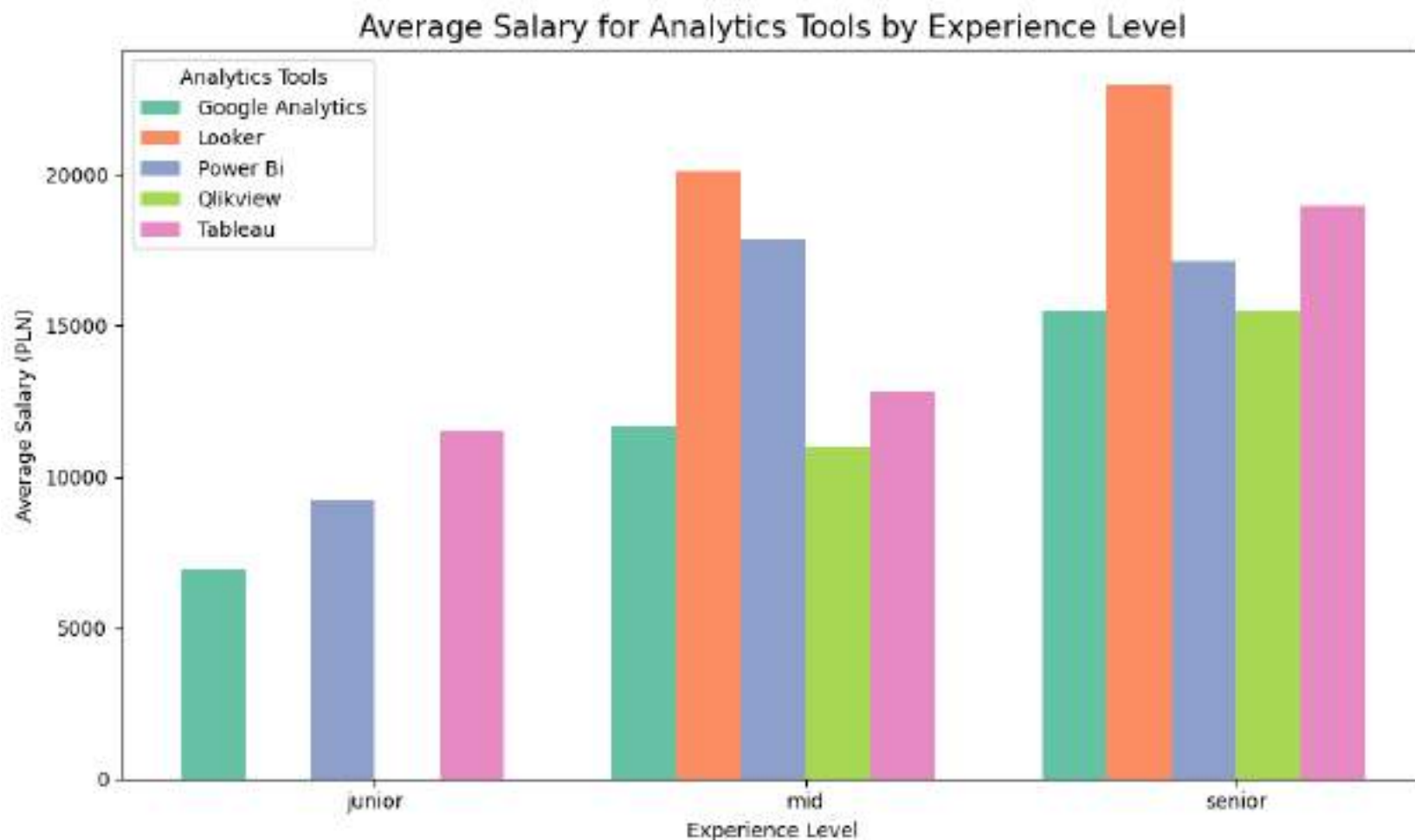## Evolving Demand for Analytics Tools

Demand for Analytics Tools

Analytics Tools
Market Distribution of Analytics Tools

Share of the market for Analytics Tools

Analytics Tools

Average Salary for Analytics Tools by Experience Level

In-demand Skill Segmentation [Contd.]
The most future proof skills

Programming Languages
Python
Scala
Java
R
Kotlin

Analytics Tools
Power BI
Google Analytics
Tableau
Qlikview
Looker

Cloud Platforms
AWS
Azure
GCP

Big Data Tools
Apache Spark
Hadoop
Kafka
Google Big Query
Cloudera

Databases
SQL
Nosql

Cloud Platforms
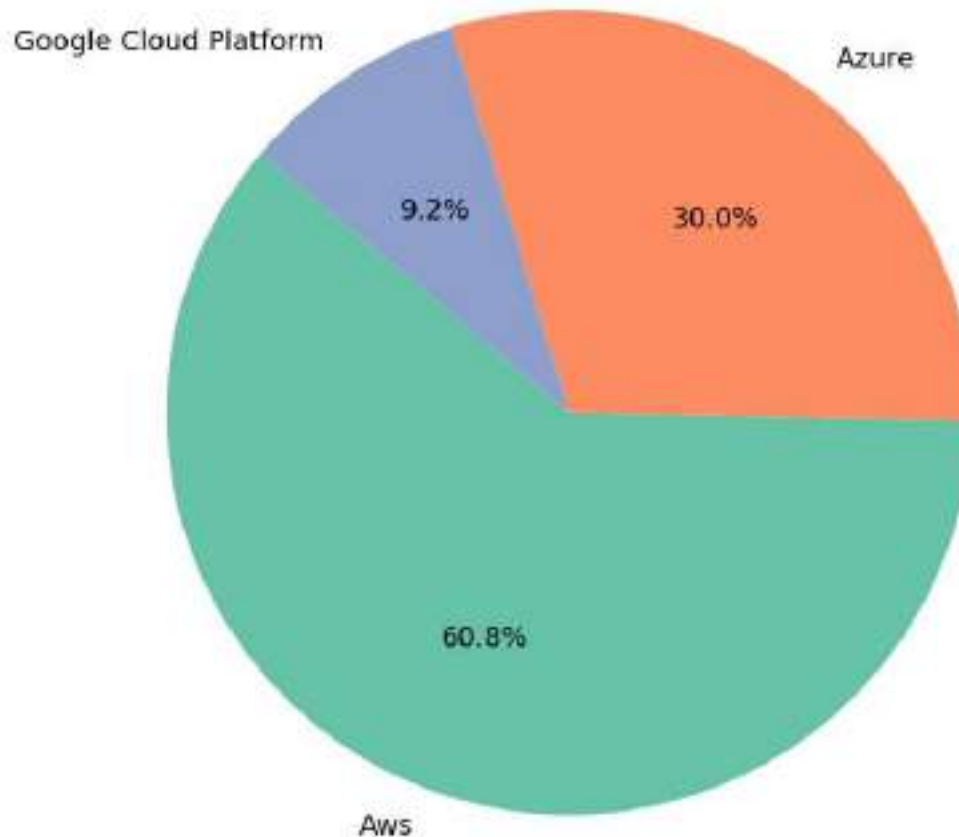## Temporal Trends in Cloud Platform Demand
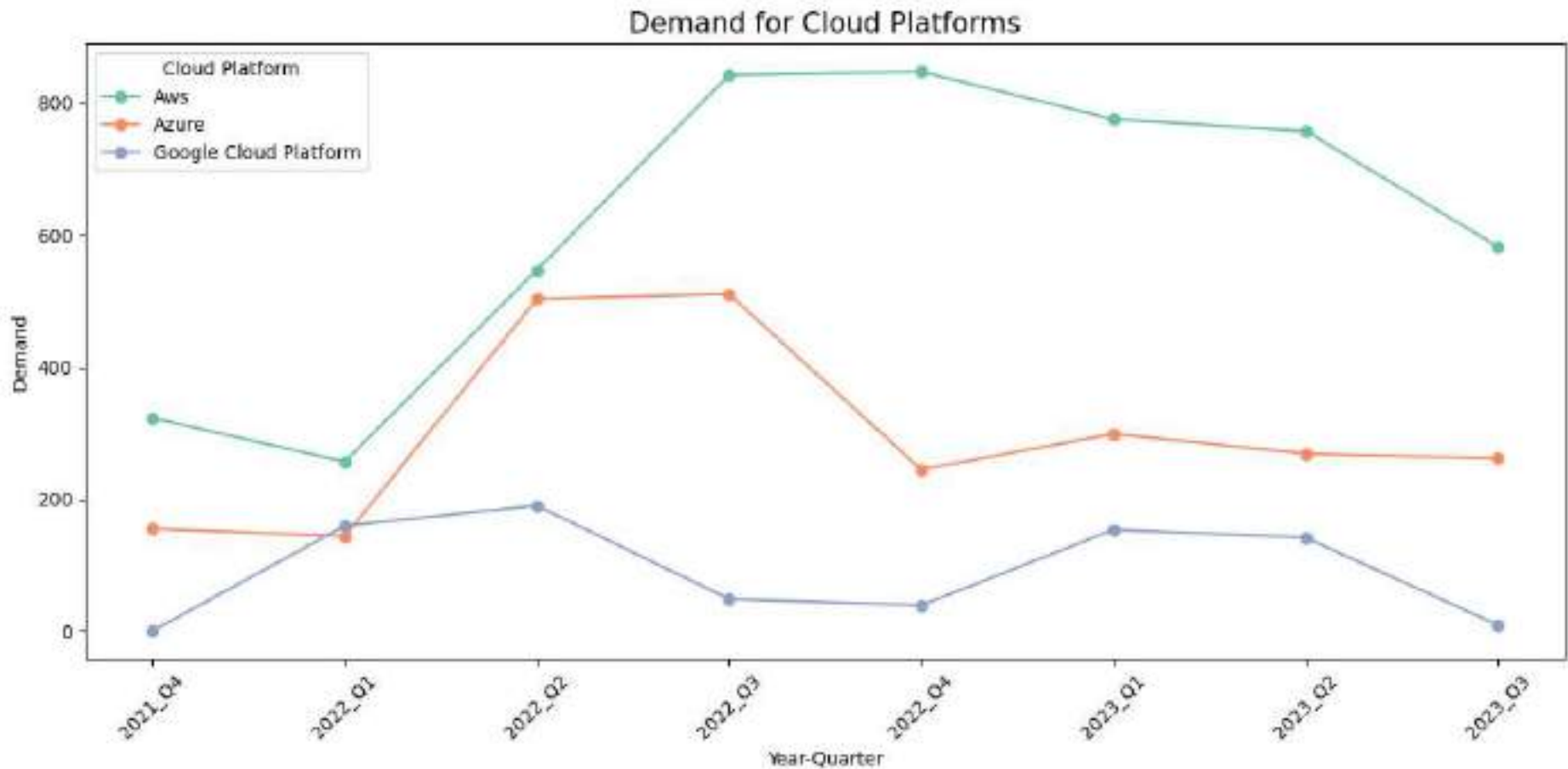
Cloud Platforms
Market Distribution of Could Platform

Share of the market for Cloud Platforms

Google Cloud Platform

Azure

9.2%

30.0%

60.8%

Aws

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Cloud Platforms

Average Salary for Cloud Platform by Experience Level

In-demand Skill Segmentation [Contd.]
The most future proof skills

Programming Languages
Python
Scala
Java
R
Kotlin

Analytics Tools
Power BI
Google Analytics
Tableau
Qlikview
Looker

Cloud Platforms
AWS
Azure
GCP

Big Data Tools
Apache Spark
Hadoop
Kafka
Google Big Query
Cloudera

Databases
SQL
Nosql

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Big Data Tools
Trends and Demand for Big Data Tools Over Time

Demand for Big Data Tools
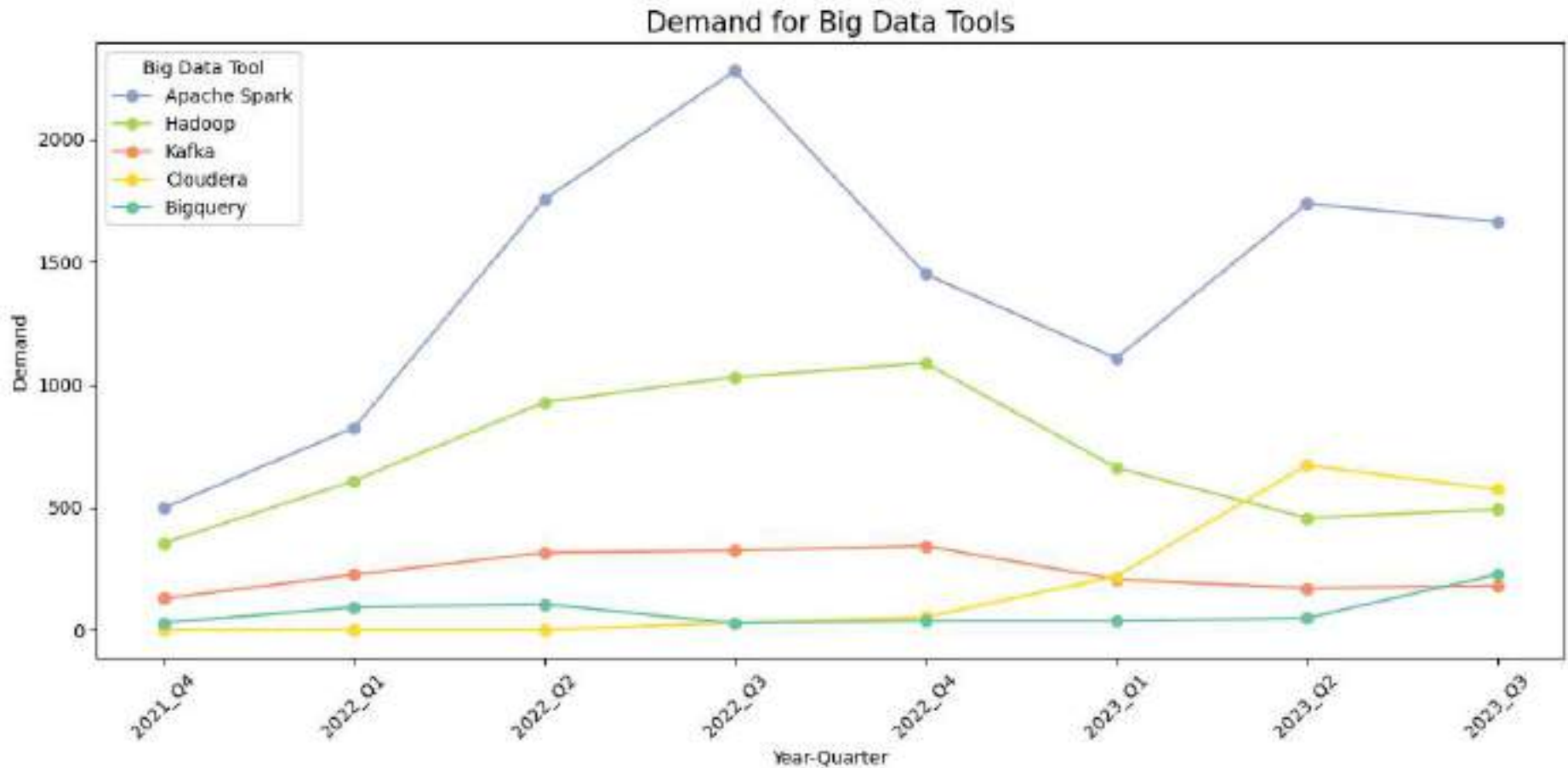
Big Data Tools
Market Distribution of Big Data Tools

Share of the market for Big Data Tools

Big Data Tools

Average Salary for Big Data Tools by Experience Level

In-demand Skill Segmentation [Contd.]
The most future proof skills

Programming Languages
Python
Scala
Java
R
Kotlin

Analytics Tools
Power BI
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Cloud Platforms
AWS
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GCP

Big Data Tools
Apache Spark
Hadoop
Kafka
Google Big Query
Cloudera

Databases
SQL
Nosql

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Databases Skills
Temporal Trends in Database Skill Demand
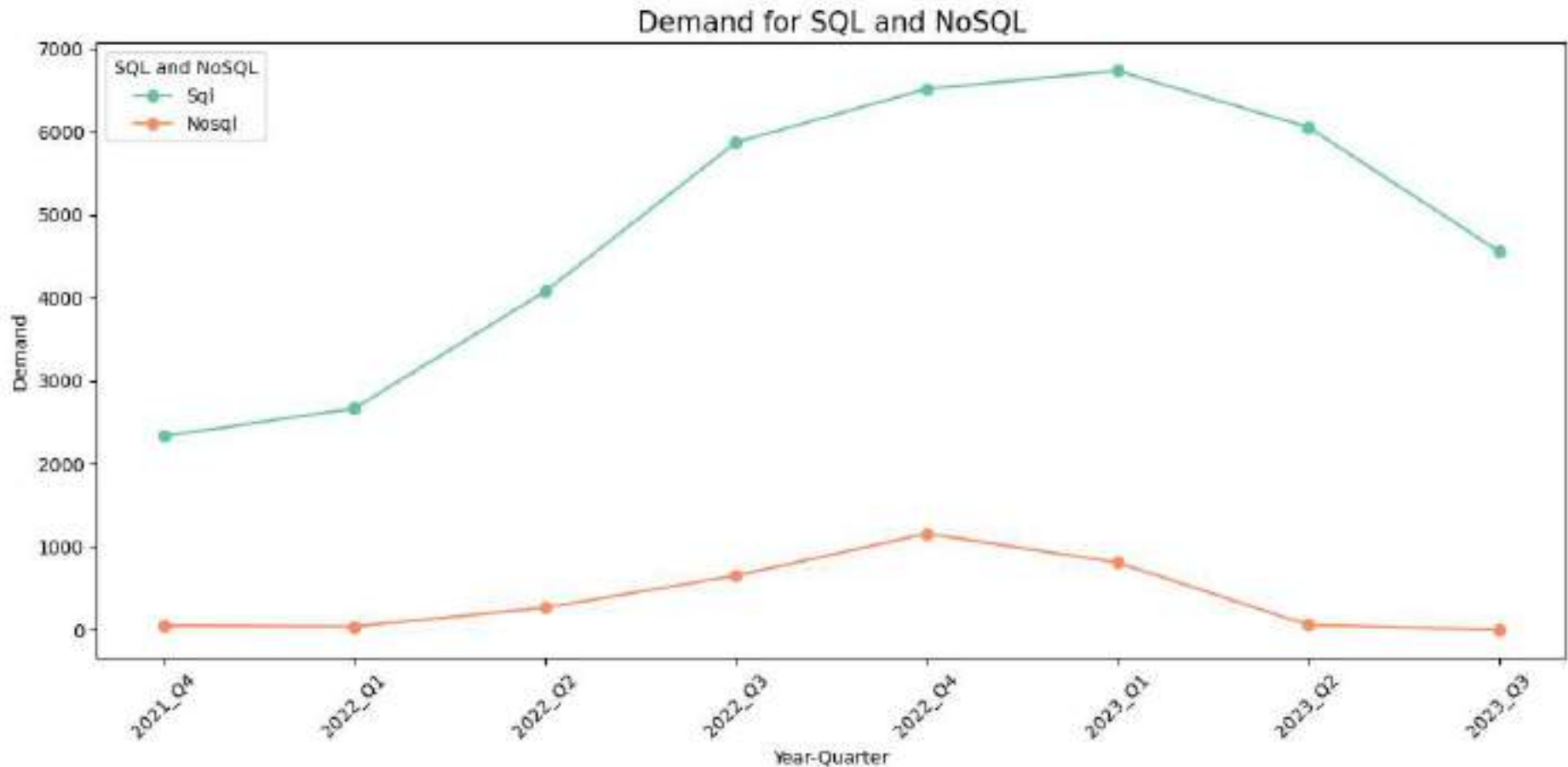
Databases Skills
Market Distribution of Databases

Share of the market for SQL and NoSQL

Databases Skills
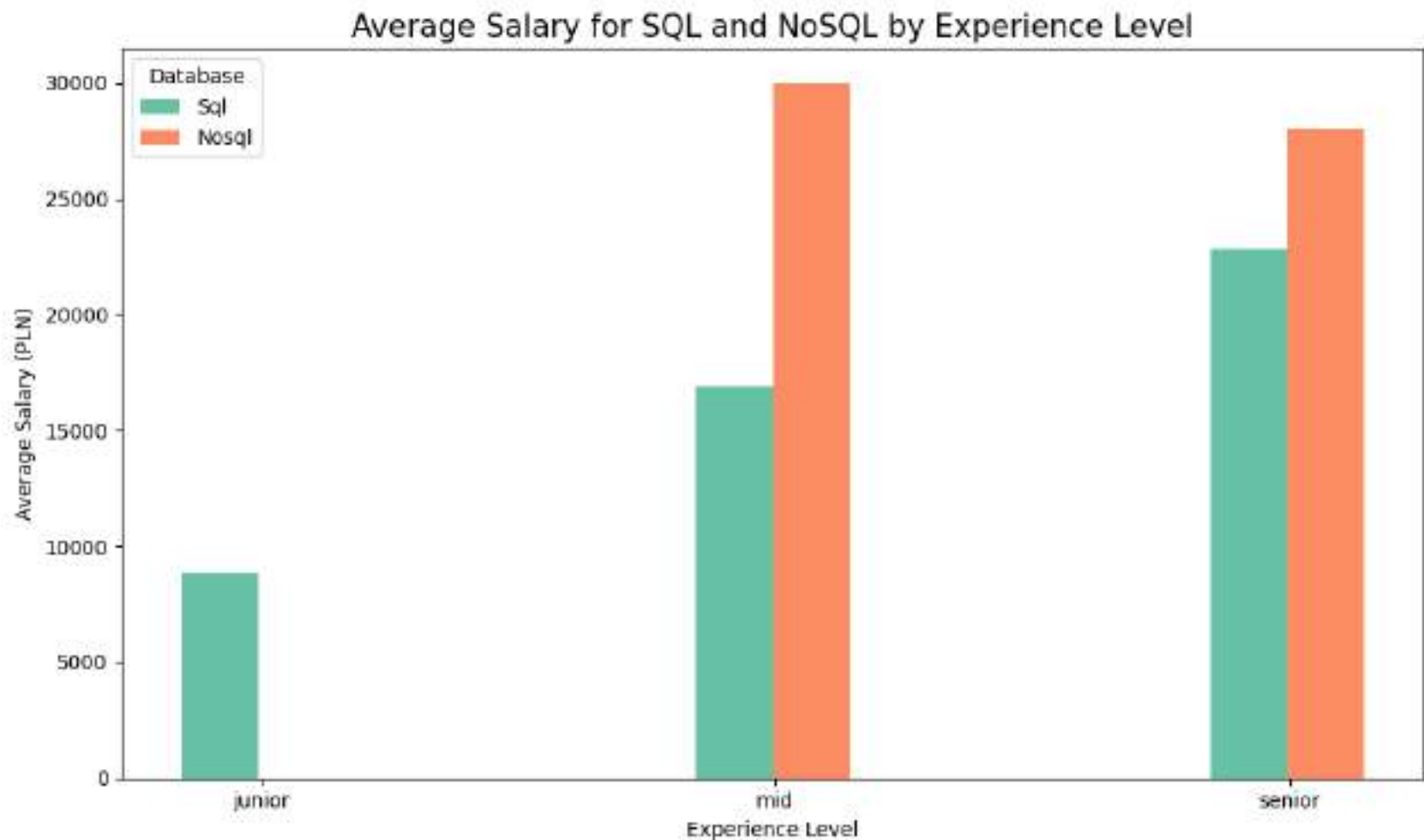
Average Salary for SQL and NoSQL by Experience Level

In-demand Skill Segmentation [Contd.]
The most future proof skills

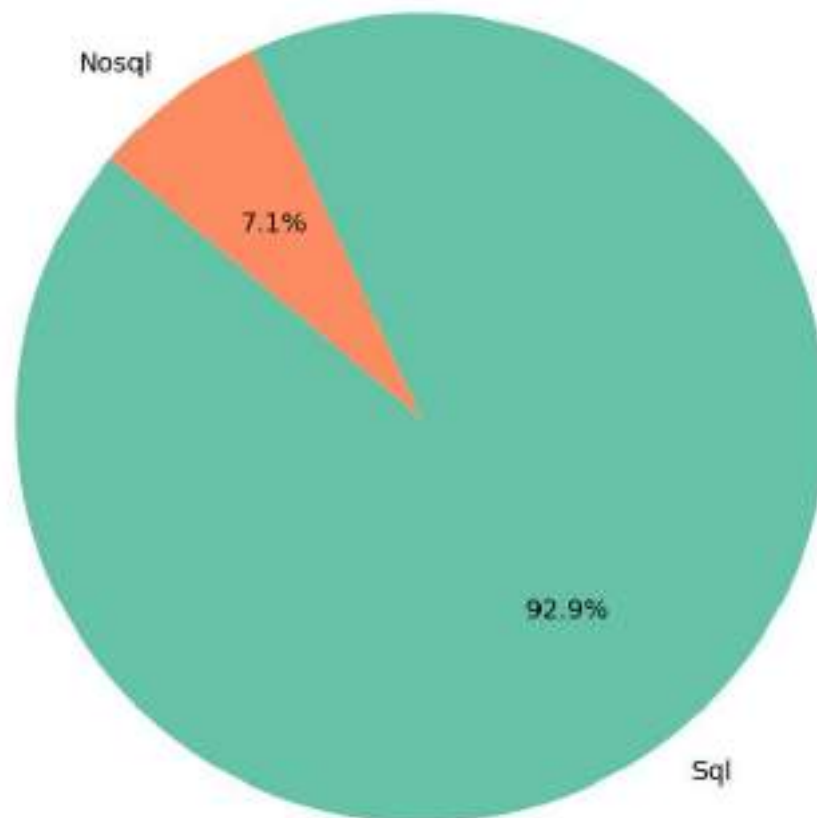Programming Languages
Python
Scala
Java
R
Kotlin

Analytics Tools
Power BI
Google Analytics
Tableau
Qlikview
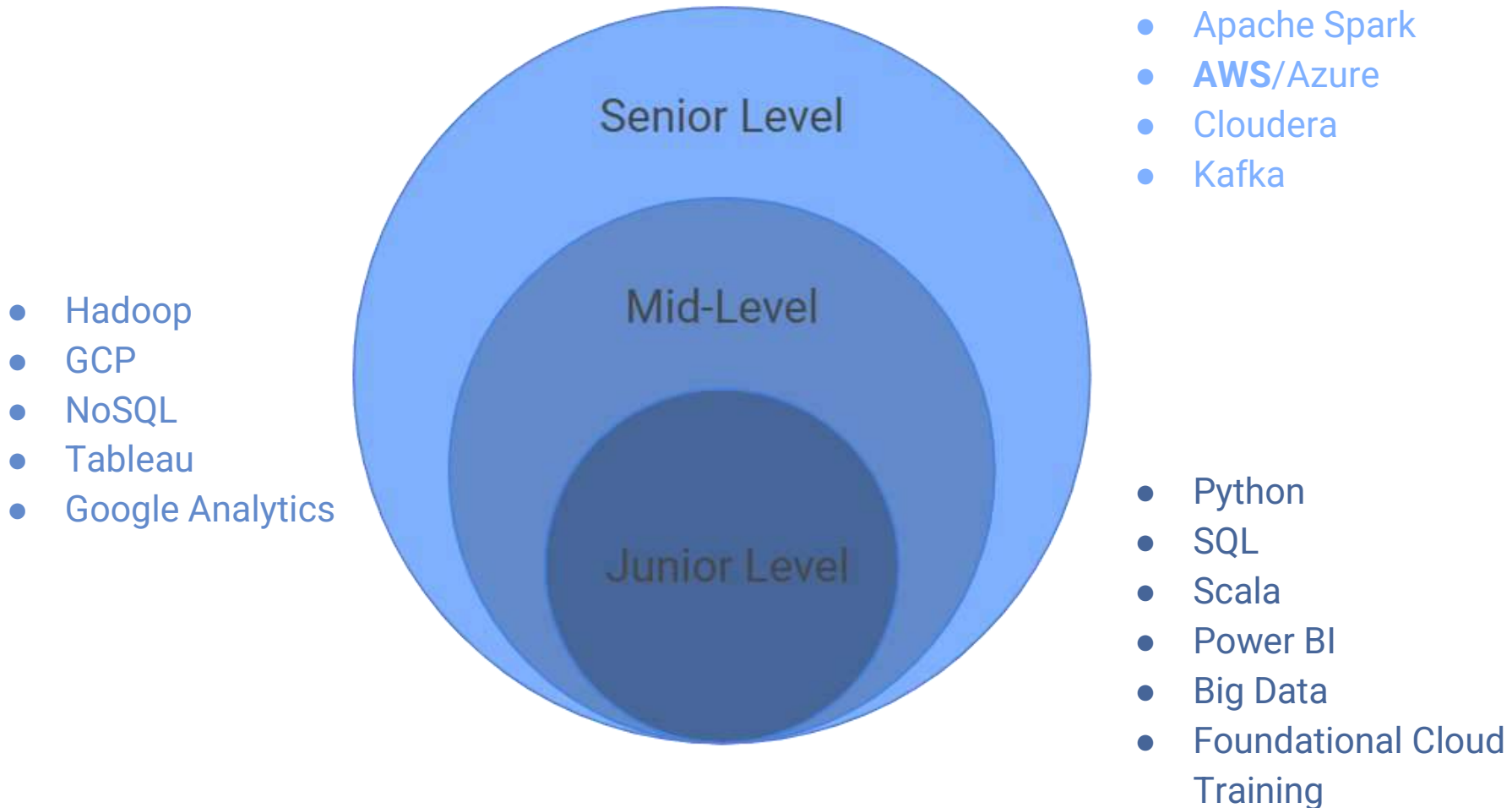Looker

Cloud Platforms
AWS
Azure
GCP

Big Data Tools
Apache Spark
Hadoop
Kafka
Google Big Query
Cloudera

Databases
SQL
Nosql

Recommendations

What courses should be launched for **Big Data Analysts** next year?

- Apache Spark
- **AWS**/Azure
- Cloudera
- Kafka

- Hadoop
- GCP
- NoSQL
- Tableau
- Google Analytics

Senior Level

Mid-Level

Junior Level

- Python
- SQL
- Scala
- Power BI
- Big Data
- Foundational Cloud Training

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Q&A
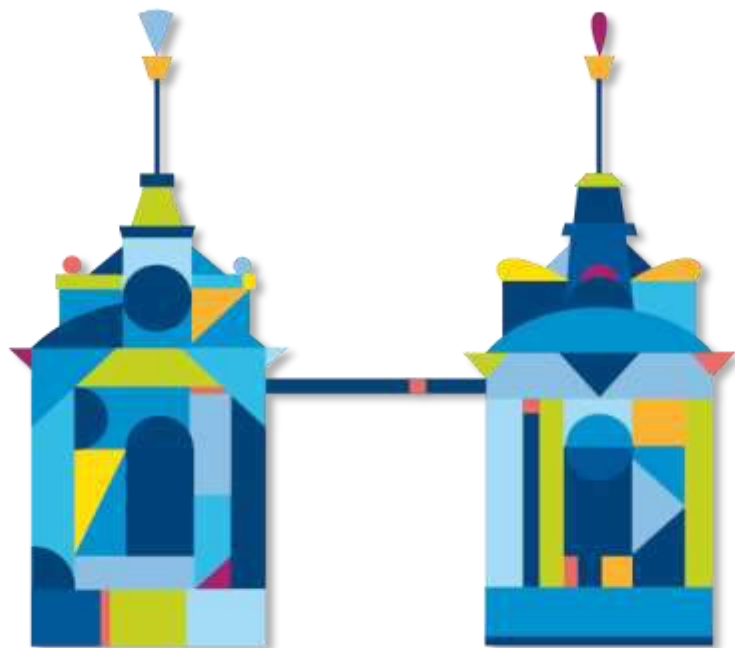
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