## AZURE DATA ENGINEERING



VISION BOARD ROADMAP

INTERVIEW CRACKING & CONFIDENCE-BUILDING

MENTOR - SUPPORT

ADMIN AND TECHNICAL SUPPORT

TECHNICAL RECRUITER

HR -CONSISTENCY TRACKING

VISIONBOARD POINT OF CONTACT





A seasoned Senior Azure Data
Engineer with a strong track record
of securing multiple offers from toptier companies. Expert in building

scalable data solutions using Azure Data Factory, Synapse, Databricks, and SQL. Renowned for a strategic approach to interview preparation and real-world project execution. A go-to mentor for aspirants



**KRISHNA** 

a seasoned Technical Lead .with deep expertise in Data Engineering, known for cracking multiple MNC offers and guiding professionals toward 40–50+ LPA roles in Azurebased data careers.



**REETHA G** 

an expert Interview Cracking & Confidence-Building Trainer, helping professionals excel in high-stakes tech interviews with clarity and confidence.



**VIMAL SHAJI** 

The go-to Admin and Technical Support Lead at Graphy, ensures swift, precise solutions for a seamless learning and mentoring experience.



**AMITHA** 

She is a skilled Technical Recruiter with a passion for helping candidates land their dream data engineering jobs. With deep insights into hiring trends, resume shortlisting



**PAVITHRA** 

she is your dedicated
VisionBoard Point of Contact,
committed to helping you
land your dream job. From
sharing daily job alerts to
providing quick responses to
your queries, Pavithra ensures
you're always informed and
supported



She is your dedicated Point of Contact (POC), always just a message away to track your progress, assist with referrals, and guide you through mock interviews to ensure your success.

# AZURE DATA ENGINEERING + GENERATIVE AI (GEN -AI)

VISION BOARD
CAREER GROWTH

+91 6235526324

+91 9656758945

visionboard044@gmail.com







## COURSE CONTENTS

- About the Program
- The Key Features of the Program
- About Vision Board
- Program Eligibility Criteria and
- Application Process
- Learning Path Visualization
- Who Should Enroll in this Program
- Courses

## **ABOUT THE PROGRAM**

Accelerating your career in Azure Data engineering can be a fantastic opportunity to enhance your skills and open doors to new job prospects. A comprehensive 4-month course that combines theory, case studies, and hands-on practicum can provide you with the knowledge and practical experience needed to excel in this field. It's important to note that while a well-structured course can provide valuable knowledge and practical experience, career acceleration also requires continuous learning, staying updated with industry trends, and gaining hands-on experience beyond the course curriculum. Additionally, networking, participating in relevant communities, and seeking real-world opportunities can further boost your career growth in Azure Data engineering.





## KEY FEATURES

Vision Board Lifetime Membership

Program in collaboration with HR

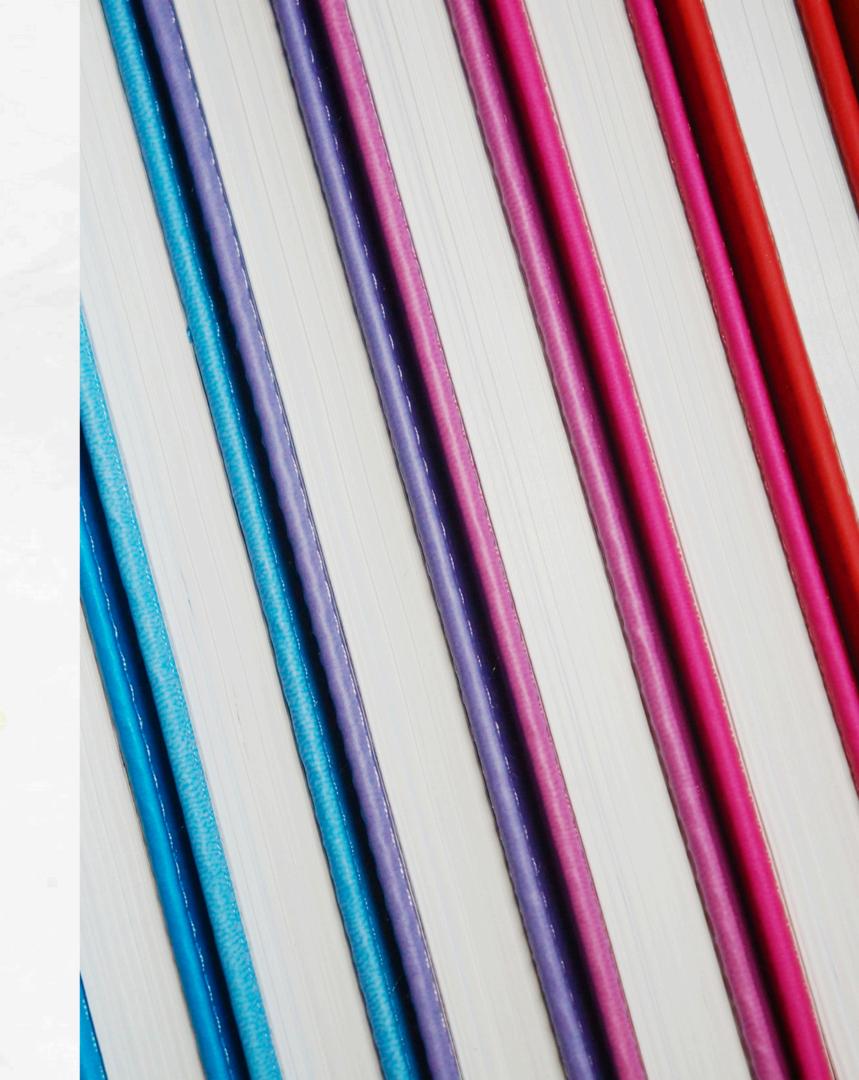
Resume preparation and LinkedIn profile building

Master Classe

Career Guidance

Leading industry course

Completion Certificate







Placing all students in reputed companies is a commendable vision for any educational institution or training program. To work towards achieving this goal, here are some strategies you can consider:

1.Industry partnerships: Establish strong partnerships and collaborations with reputed companies in your target industries. Engage with them through internships, guest lectures, workshops, or industry-academia projects. These partnerships can provide valuable insights, networking opportunities, and potential recruitment channels.

2.Curriculum alignment: Ensure that your curriculum is aligned with industry requirements and incorporates the latest trends and technologies. Conduct regular reviews and updates to bridge any skill gaps and equip students with relevant knowledge and practical skills that companies are seeking.

3.Career development programs: Offer comprehensive career development programs to students. This includes workshops on resume building, interview skills, networking, and professional etiquette. Provide guidance and support for students to explore various career paths, set goals, and develop job search strategies.

#### **DP-900 AZURE DATA FUNDAMENTALS**

- Explore core data concepts
- Explore relational data on Azure
- Explore non-relational data on Azure
- Explore Analytics workload on Azure
- DP 900 Certification

#### **Azure Data Factory**

- Master Data Pipelines & Data Flow using ADF Handle
- variety of data source like: SQL server, Rest API,
   CSV/JSON, Parquet, ADLS Incremental & batch pipeline
- 4 Types of Trigger Implementation Parameterization
- Most Important: On-Prem to cloud Migration end to end
- 10 Practical ADF Implementation 10 Practical
- Assessment scenarios Pipeline Monitoring Debugging
- and Performance Optimization. Real time project
- discussion and Master on ADF.

#### •

#### DP 203- Preparation/ DP 600 / DP 700

- Azure Data Factory
- Azure Synapse Analytics
- Azure Stream Analytics
- Azure Event Hubs
- Azure Data Lake Storage
- Azure Databricks & FABRIC

#### Python for Data Science/Engineering

- Basics of Object Oriented Programming
- Creating Class and Object
- Constructors in Python Parameterized and Non-parameterized
- Inheritance in Python
- In built class methods and attributes
- Multi-Level and Multiple Inheritance
- Method Overriding and Data Abstraction
- Encapsulation and Polymorphism



#### **Advanced version of SQL**

- 1. Select
- 2. Distinct
- 3. IS NULL
- 4. WHERE
- 5. LIKE
- 6. Order by
- 7. Limit
- 8. Case
- 9. Rank and Dense Rank

- 10. Union and Union all
- 11. Exists
- 12. Count and its variant
- 13. Max, Min, Sum, Avg, etc
- 14. Round, Trunc, Substr
- 15. Alter, Update, Delete
- 16. Create, Insert
- 17. Listagg
- 18. Level/Connect By

#### DSA(easy to medium)

- ARRAYS
- STRINGS
- LINKED LIST
- STACK
- SORTING
- SEARCHING
- HASHING
- TREES
- QUEUE

#### **Pyspark**

- Environment Setup
- Spark RDD
- spark Caching
- Common Transformations and Actions
- Spark Functions
- Key-Value Pairs
- Aggregate Functions

- Joins in Spark
- Spark DataFrame
- Spark Shared Variables
- Custom Accumulator
- Spark and Fault Tolerance
- Broadcast variables
- Numeric RDD Operations
- Per-Partition Operations



#### **Azure Data Bricks**

- Understand data and Spark Architectures
- Cluster Creation, Notebook Analysis
- Azure Databricks Workspace creation, delta tables, spark SQL, cluster management...
- RDDs / DataFrame /Spark SQL
- Data lake
- Delta lake
- Data Lakehouse architecture
- In depth spark performance optimization
- Partitioning bucketing caching, AQE and many more techniques
- Spark Streaming in Depth
- Databricks Project Implementation

#### **3 REAL TIME PROJECT**

END TO END Project Implementation Azure Fabric Project

GEN - Al Project

#### **Interview Preparation**

- Interview Questions
- Preparation Companies based
- interview technique Package
- negotiation secret skills Build
- Confidence Resume
- Preparation/ Linkedin



#### Fabric Training Detailed Syllabus

- 1. Introduction to Microsoft Fabric
  - Overview of Microsoft Fabric
- Key features and capabilities
- Understanding the Fabric ecosystem and its components
- 2. Workspace Setup
  - Setting up the development environment
  - Configuring Fabric workspace essentials
  - Best practices for workspace management
- 3. Data Lakehouse: Deep Understanding
- Exploring the concept of a Data Lakehouse
- Architecture and components of a Data Lakehouse
- Integrating Data Lakehouse with Microsoft Fabric
- 4. Data Ingestion and Data Processing Part 1
- Fundamentals of data ingestion
- Batch and real-time data processing techniques
- Tools and services for data ingestion in Fabric
- 5. Data Ingestion and Data Processing Part 2 with Spark
- Advanced data processing with Apache Spark
- Spark integration with Fabric for large-scale data processing
- Hands-on examples and use cases

- **6. Data Warehousing**
- Introduction to data warehousing concepts
- Building and managing data warehouses with Fabric
- Data modeling and warehouse design strategies
- 7. Data Pipeline and Stream Data
  - Designing robust data pipelines for continuous data flow
- Stream processing fundamentals and best practices
- Leveraging Fabric for efficient stream data management
- 8. End-to-End Project Part 1
  - Initiating a real-world project: planning and design
- Data collection and initial processing steps
- Implementing the first phase of the project with guidance
- 9. End-to-End Project Part 2
  - Completing the project: advanced processing and analytics
  - Finalizing data outputs and visualization
  - Project review, optimization, and deployment strategies



#### **Generative Al**

- Introduction to Generative AI and Foundation Models (GPT, DALL-E, etc.)
- Key concepts: LLMs, Transformers, and use cases across industries
- Prompt Engineering: Techniques, best practices, and prompt types
- Exploring tools: ChatGPT, Bard, Claude, and Hugging Face
- Text generation, summarization, and Q&A with LLMs
- Image and code generation with Gen AI models
- Integration with Python and APIs (OpenAI, LangChain basics)
- Business use cases: content creation, chatbots, automation
- Responsible AI: bias, privacy, and ethical considerations
- Final mini project + roadmap to Gen AI career paths



## WHO SHOULD ENTROLL IN THIS PROGRAM?

This program caters to working professionals from a variety of industries and backgrounds; the diversity of our students adds richness to class discussions and interactions.

The Data Engineer role requires an amalgam of experience, Data knowledge, and using the correct tools and technologies. It is a solid career choice for both new and experienced professionals. Aspiring professionals of any educational background with an Analytical

frame of mind are most suited to pursue this Post Graduate Program in Data Science, including:

- IT professionals
- Analytics managers
- Business analysts
- Software developers
- Beginners or recent graduates with bachelor's or master's degree



#### **DP-900 AZURE DATA FUNDAMENTALS**

Syllabus - Week 1

- Explore core data concepts
- Explore relational data on Azure
- Explore non-relational data on Azure
- Explore Analytics workload on Azure
- DP 900 Certification

#### **Azure Data Factory**

Syllabus - Week 2 - 4

- Master Data Pipelines & Data Flow using ADF
- Handle variety of data source like: SQL server, Rest API, CSV/JSON, Parquet, ADLS
- Incremental & batch pipeline
- 4 Types of Trigger Implementation
- Parameterization
- Most Important: On-Prem to cloud Migration end to end
- 10 Practical ADF Implementation
- 10 Practical Assessment scenarios
- Pipeline Monitoring Debugging and Performance Optimization.
- Real time project discussion and Master on ADF.



## DP 203/DP 600/DP 700- Preparation

Syllabus - Week 5 - 6

- Azure Data Factory
- Azure Synapse Analytics
- Azure Stream Analytics
- Azure Event Hubs
- Azure Data Lake Storage
- Azure Databricks
- Fabric



## Python for Data Science/Engineering

Syllabus - Week 6 - 7

- Introduction of Python
- Installing Python IDES Python IDLE and Anaconda
- Writing Your First Python Program
- Data-types in Python
- Variables in Python Declaration and Use
- Typecasting in Python
- Operators in Python Assignment, Logical, Arithmetic etc.
- Taking User Input (Console)
- Conditional Statements If else and Nested If else and elif
- Python Collections (Arrays) List, Tuple, Sets and Dictionary
- Loops in Python For Loop, While Loop & Nested Loops
- String Manipulation Basic Operations, Slicing & Functions and Methods
- User Defined Functions Defining, Calling, Types of Functions, Arguments
- Lambda Function
- Importing Modules Math Module



## Syllabus - Object Oriented Programming in Python

- Basics of Object Oriented Programming
- Creating Class and Object
- Constructors in Python Parameterized and Non-parameterized
- Inheritance in Python
- In built class methods and attributes
- Multi-Level and Multiple Inheritance
- Method Overriding and Data Abstraction
- Encapsulation and Polymorphism



## Advanced version of SQL

#### Syllabus - Week 8

- 1. Select
- 2. Distinct
- 3. IS NULL
- 4. WHERE
- 5. LIKE
- 6. Order by
- 7. Limit
- 8. Case
- 9. Rank and Dense Rank
- 10. Union and Union all
- 11. Exists
- 12. Count and its variant

- 13. Max, Min, Sum, Avg, etc
- 14. Round, Trunc, Substr
- 15. Alter, Update, Delete
- 16. Create, Insert
- 17. Listagg
- 18. Level/Connect By
- 1. And
- 2. Or
- 3. Greater Than
- 4. Less Than
- 1. Self join
- 2. Inner join
- 3. Cross join
- 4. Left and Right outer join
- 5. Full Outer Join



- 1. CTE expression
- 2. Independent and Correlated query
- 3. Different keys
- 4. Recursive CTE
- 5. Pivot
- 1. ROLL UP
- 2. Cumulative Sum
- 3. Lead
- 4. Lag
- 5. NTILE
- 6. ROW\_NUMBER
- i) @LeetCode
- ii) @HackerRank



## DSA(easy to medium)

## Syllabus - Week 9

- ARRAYS
- STRINGS
- LINKED LIST
- STACK
- SORTING
- SEARCHING
- HASHING
- TREES
- QUEUE



Syllabus - Week 10

- Environment Setup
- Spark RDD
- spark Caching
- Common Transformations and Actions
- Spark Functions
- Key-Value Pairs
- Aggregate Functions
- Working with Aggregate Functions
- Joins in Spark
- Spark DataFrame
- Spark Shared Variables
- Custom Accumulator
- Spark and Fault Tolerance
- Broadcast variables
- Numeric RDD Operations
- Per-Partition Operations



## **Azure Data Bricks**

Syllabus - Week 11-12

- Understand data and Spark Architectures
- Cluster Creation, Notebook Analysis
- Azure Databricks Workspace creation, delta tables, spark SQL, cluster management...
- RDDs / DataFrame /Spark SQL
- Data lake
- Delta lake
- Data Lakehouse architecture
- In depth spark performance optimization
- Partitioning bucketing caching, AQE and many more techniques
- Spark Streaming in Depth
- Databricks Project Implementation



## **Fabric Training Detailed**

- Introduction to Microsoft Fabric
- Workspace Setup
- Data Lakehouse: Deep Understanding
- Data Ingestion and Data Processing Part 1
- Data Ingestion and Data Processing Part 2 with Spark
- Data Warehousing
- Data Pipeline and Stream Data
- End-to-End Project Part 1
- End-to-End Project Part 2



## REAL TIME PROJECT

Syllabus - Week 13

 END TO END Project Implementation Fabric Project
 Gen -Al Project

## INTERVIEW PREPARATION

Syllabus - Week 14 - 20

- Interview Questions Preparation
- Companies based interview
- technique Package negotiation secret
- skills Build Confidence Resume
- Preparation/ Linkedin



### **GEN-AI**

- Introduction to Generative AI and Foundation Models (GPT, DALL·E, etc.)
- Key concepts: LLMs, Transformers, and use cases across industries
- Prompt Engineering: Techniques, best practices, and prompt types
- Exploring tools: ChatGPT, Bard, Claude, and Hugging Face
- Text generation, summarization, and Q&A with LLMs
- Image and code generation with Gen AI models
- Integration with Python and APIs (OpenAI, LangChain basics)
- Business use cases: content creation, chatbots, automation
- Responsible AI: bias, privacy, and ethical considerations
- Final mini project + roadmap to Gen AI career paths





# SUCCESS STORIES



"BATCH 5 SUCCESS
STORIES 1
WITH
GOOD HIKE

+91 6235526324

REGISTER NOW









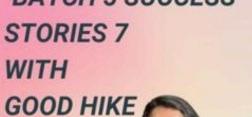




## AZURE DATA **ENGINEERING**

COURSE

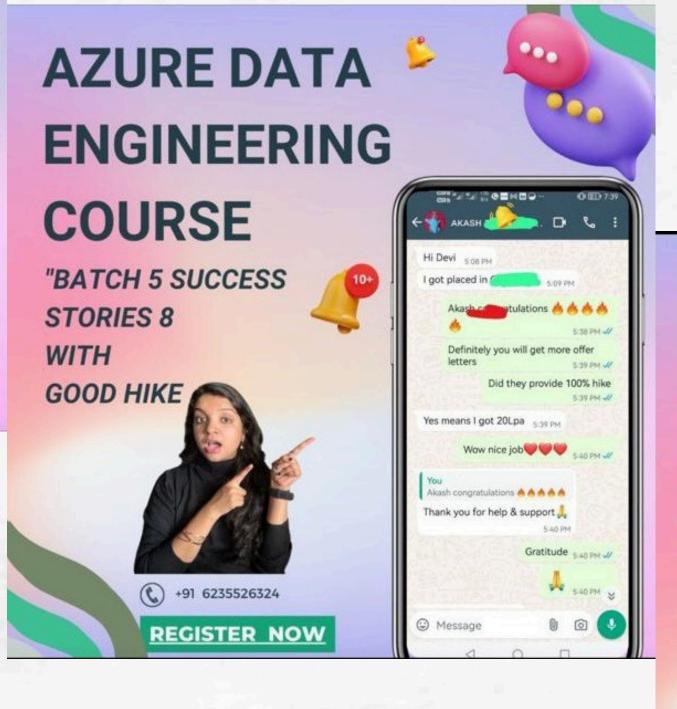
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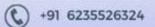




COURSE

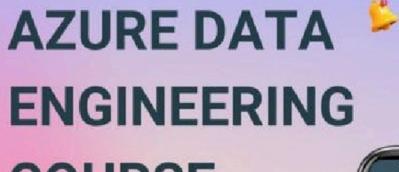
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**REGISTER NOW** 





COURSE **"BATCH 5 SUCCESS** 

STORIES 10



+91 6235526324

REGISTER NOW



Sreedhar Azure...

They offered me: 19 LPA 6/02 PM

I got an offer from Capgemini.

the documents.

Hi Devi.

Message



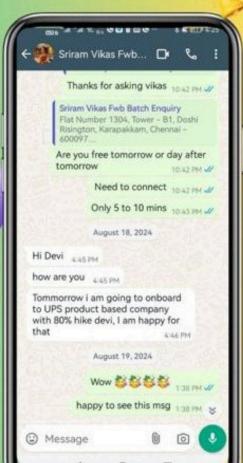


**ENGINEERING COURSE** 

**"BATCH 5 SUCCESS** STORIES 13 WITH GOOD HIKE 80%"

**AZURE DATA** 















+91 6235526324

**REGISTER NOW** 

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Congratulations 💸

@Aneena Azure

Message

#### **AZURE DATA**



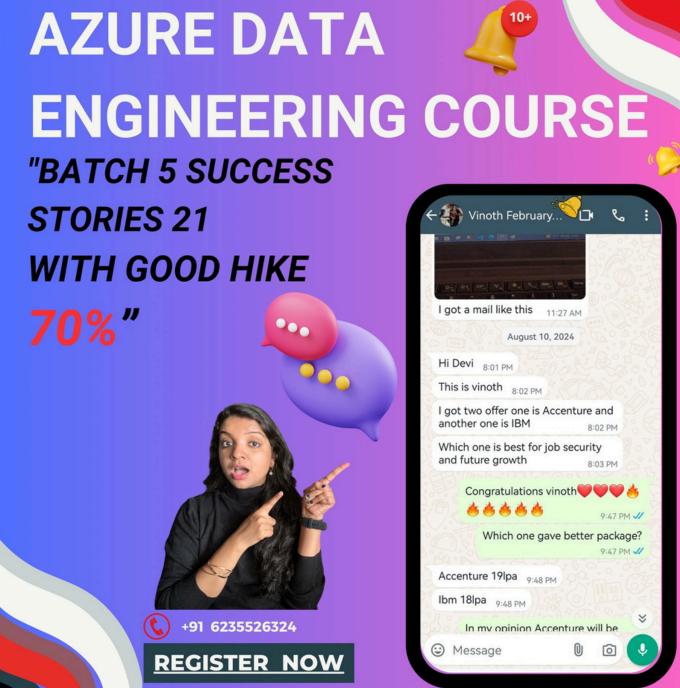
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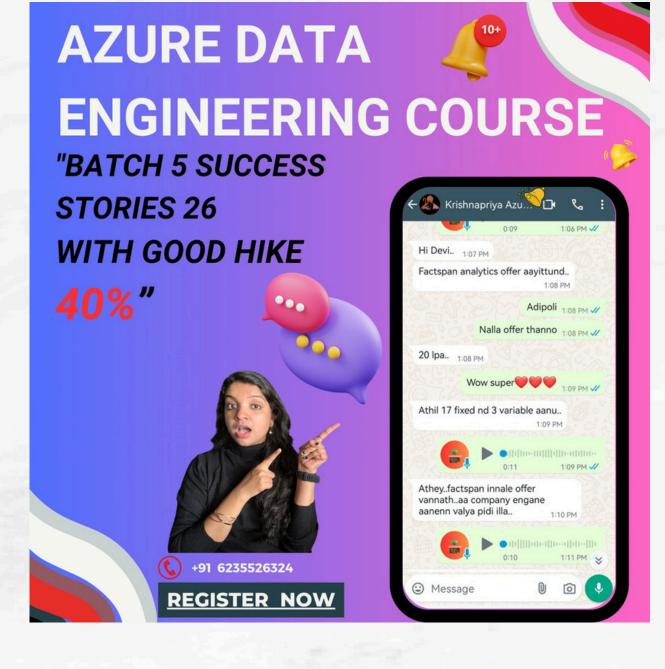
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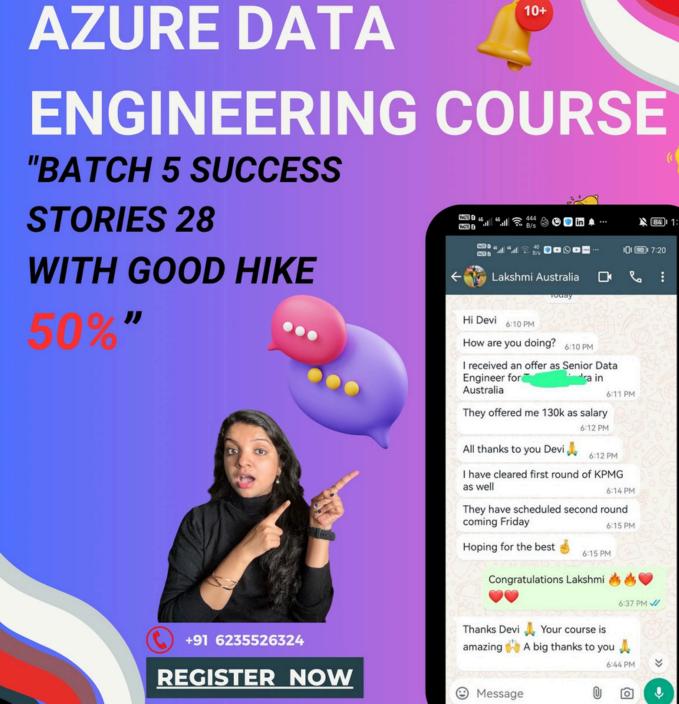
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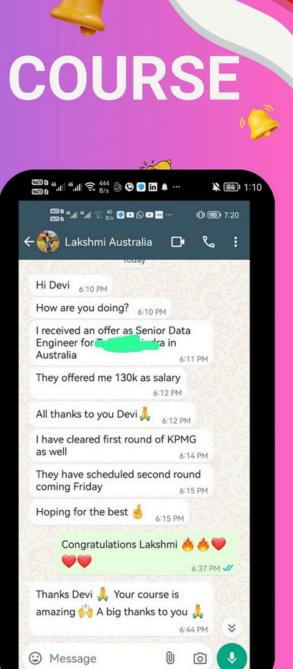








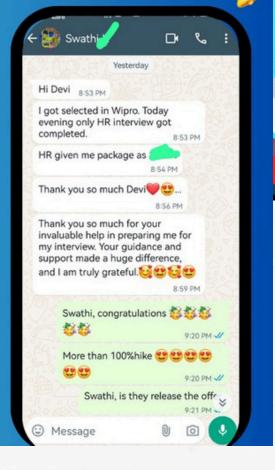




## **AZURE DATA ENGINEERING COURSE**

**"SUCCESS STORIES 29 WITH GOOD HIKE NEAR TO 100%"** 





## **AZURE DATA ENGINEERING COURSE**

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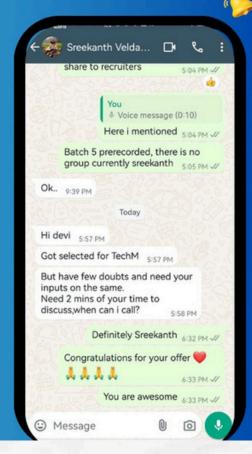




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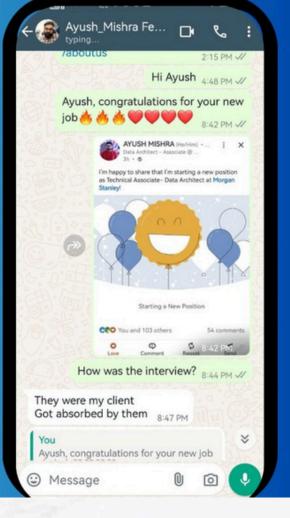


AZURE DATA

ENGINEERING COURSE

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"SUCCESS STORIES 33 WITH GOOD HIKE NEAR TO 100%"





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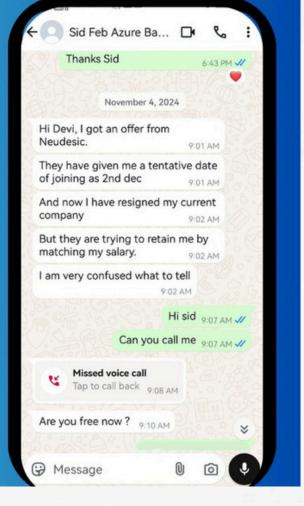






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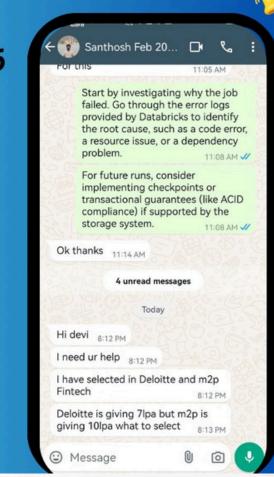




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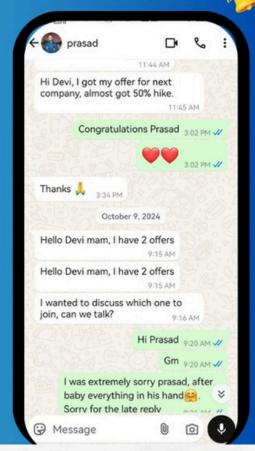
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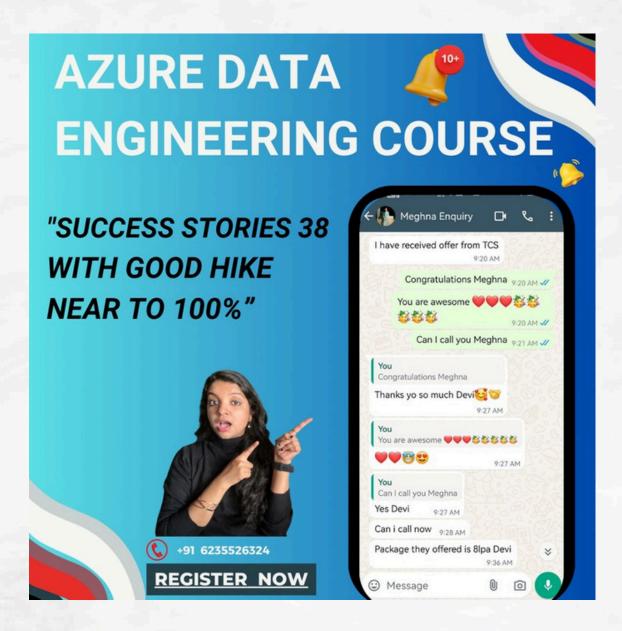




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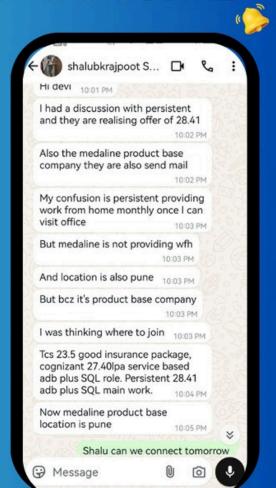






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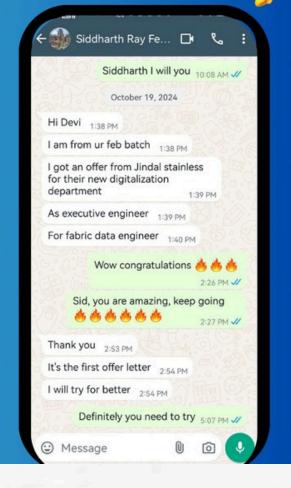




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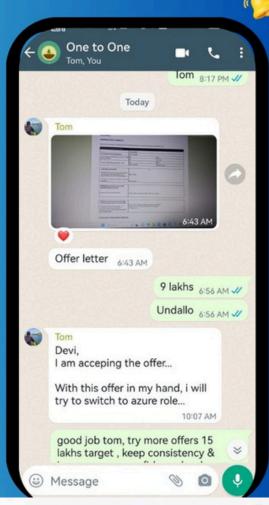




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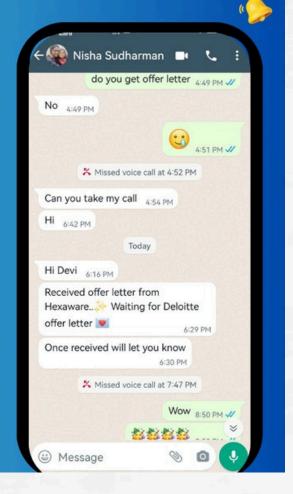
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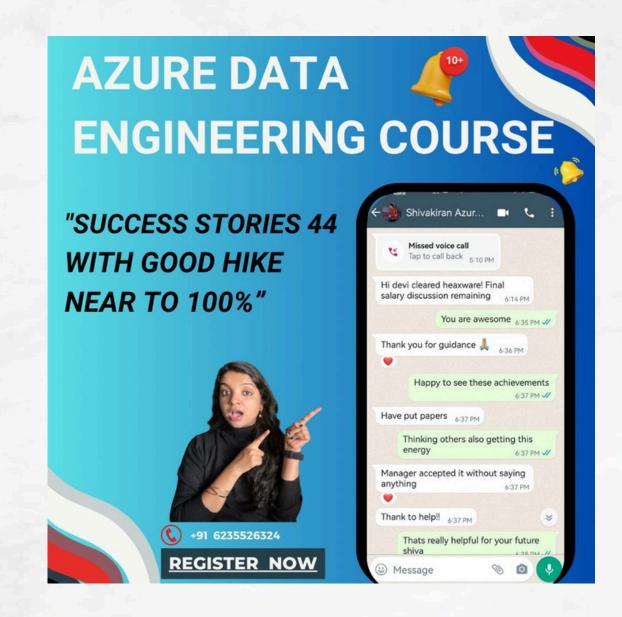




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"SUCCESS STORIES 46
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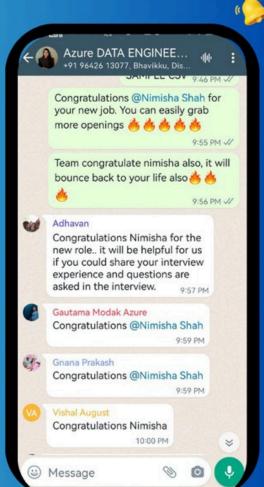




### AZURE DATA ENGINEERING COURSE

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NEAR TO 100%"





"SUCCESS STORIES 49
WITH GOOD HIKE
NEAR TO 100%"





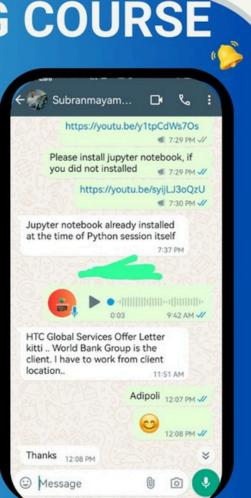


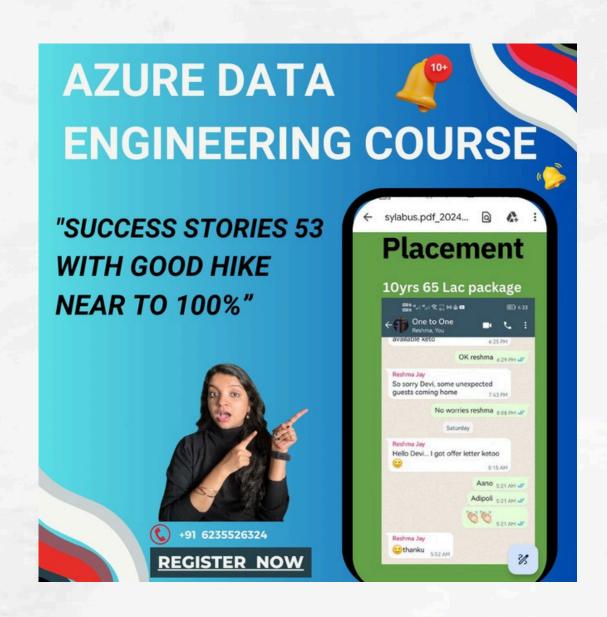




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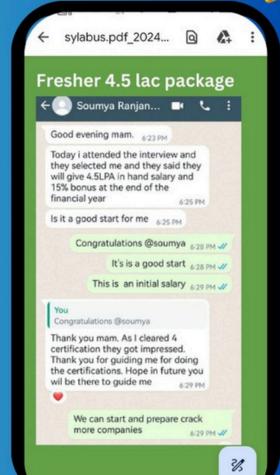




### AZURE DATA ENGINEERING COURSE

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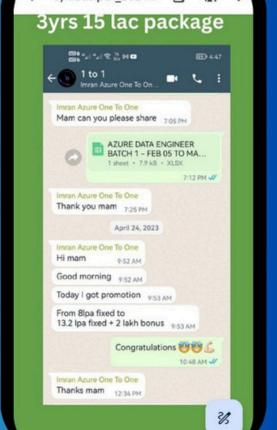
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### AZURE DATA ENGINEERING COURSE

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"SUCCESS STORIES 58
WITH GOOD HIKE
NEAR TO 100%"







"SUCCESS STORIES 59
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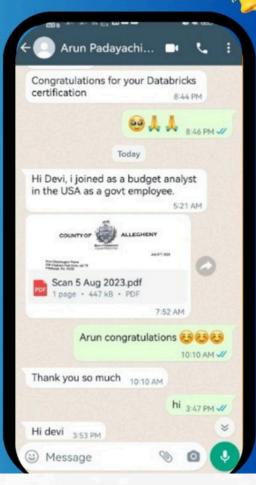




### AZURE DATA ENGINEERING COURSE

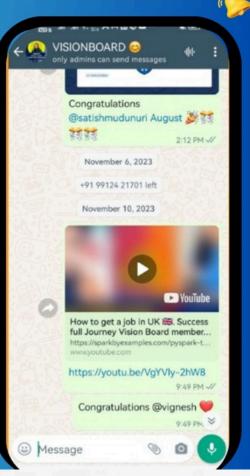
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"SUCCESS STORIES 61 WITH GOOD HIKE NEAR TO 100%"







"SUCCESS STORIES 62 WITH GOOD HIKE NEAR TO 100%"





# AZURE DATA ENGINEERING COURSE

"SUCCESS STORIES 63
WITH GOOD HIKE
NEAR TO 100%"





"SUCCESS STORIES 64 WITH GOOD HIKE NEAR TO 100%"

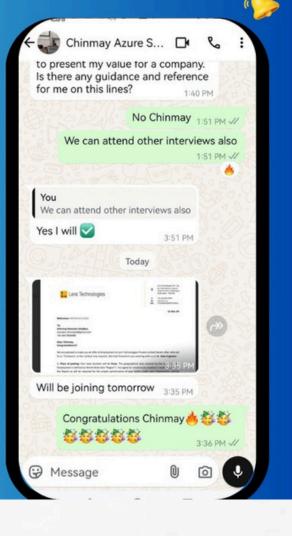




# AZURE DATA ENGINEERING COURSE

"SUCCESS STORIES 65 WITH GOOD HIKE NEAR TO 100%"





#### AZURE DATA ENGINEERING COURSE

"SUCCESS STORIES 66 WITH GOOD HIKE NEAR TO 100%"







# PODCASTS











AZURE DATA ENGINEERING LEARNING PATH 2024

CLEARING DOUBTS, SALARY







