AI-Powered Business Analyst Masters Program

In Collaboration with **Microsoft Azure**

Duration: **5 Months**

Module-wise Gen AI coverage

36 hours of live CBAP certification training

Simplilearn Job Assistance

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Transition Into the Business Analysis Industry

In a rapidly digitalizing world, business analysis has emerged as the linchpin for organizational success. Business analysts bridge the gap between data and decisions, helping organizations optimize processes and unlock growth.

The Growing Wave of Business Analysis

$1.8 Trillion

global market value for business analytics tools by 2030

14% CAGR

growth for business analysts from 2022 to 2028

$160,000

Business analysts can earn over $160,000 annually

70%

of digital transformation initiatives fail due to poor analysis

1.3 Million New Jobs by 2030

By 2030, business analysis jobs are expected to reach new peaks globally

Business Analyst A Top Tech Job

Top 10 in-demand tech jobs worldwide

Career Path:

- ✅ Entry-Level Business Analyst
- ✅ Junior Business Analyst
- ✅ Mid-Level Business Analyst
- ✅ Senior Business Analyst
- ✅ Lead Business Analyst / Team Lead

- ✅ Principal Business Analyst
- ✅ Director of Business Analysis / Head Business Analyst
- ✅ Chief Business Analyst / Senior Director of Business Analysis

Alternate Career Paths:

Product Owner/Manager
$134K - $220K/yr

Business Architect
$157K - $250K/yr

Program Manager
$168K - $249K/yr

Business Solutions Architect
$184K - $293K/yr

Strategy Lead
$192K - $321K/yr
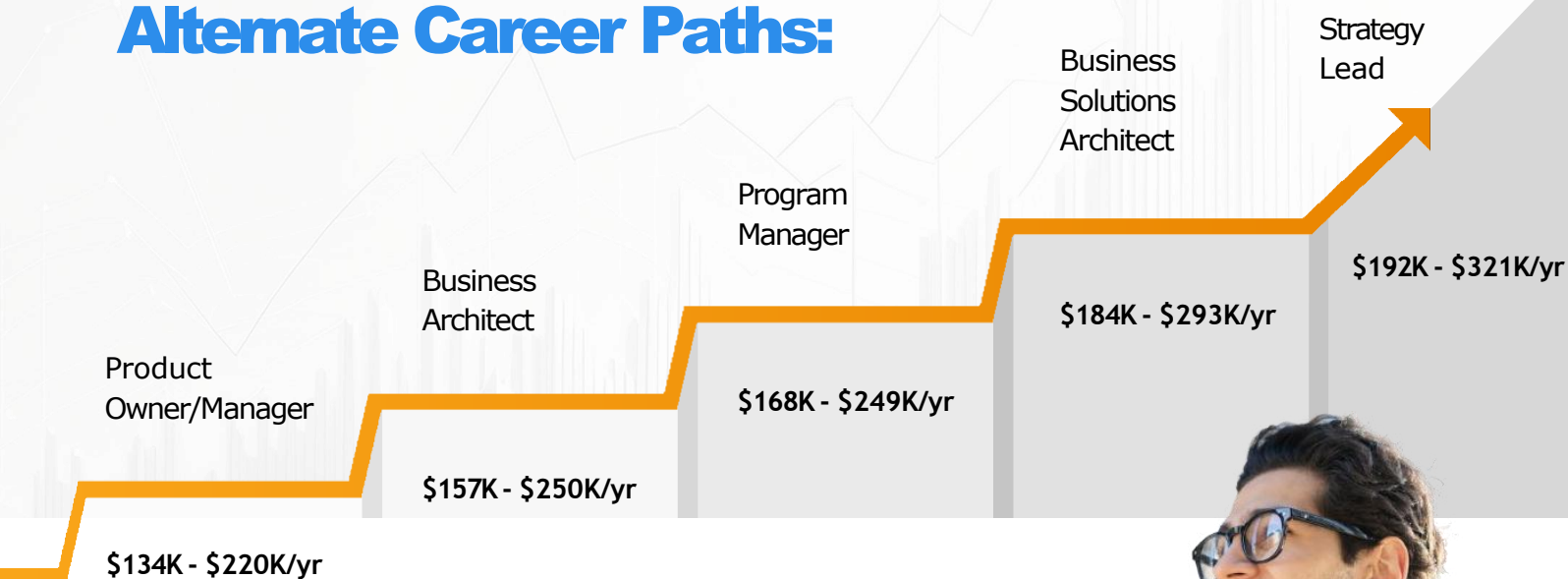
The High-Growth Industries Which Hire Business Analysts:

- IT and Consulting
- Banking & Finance
- Healthcare
- Retail & E-commerce
- Manufacturing

Is This Program for You?

Aspiring professionals of any educational background with an analytical mindset are most suited to pursue the Business Analyst Master's Program, including:

- Aspiring Business Analysts - including recent college graduates and those looking to make a career change.

- IT professionals

- Beginners in the data analytics domain

- Project managers

- Professionals who are performing

- business analysis duties, such as administrators, managers, and project leads.

- Banking and finance professionals

- Marketing managers

- Supply chain network managers

Maulikkumar Jani
RPA Business Analyst

I learned how to tackle challenges and manage my time in a better manner, I implemented the Agile methodology in my job, and I saw an almost 65% increase in productivity. I could do all this since I acquired these skills while taking the course, so if someone can apply what they are learning online, it would be a huge help. This comprehensive business analyst training enabled me to impress recruiters more effectively. Additionally, I received a 20% salary hike and successfully differentiated myself from the crowd.

Unsure If This Is The Right Fit?

Talk to a Learning Consultant

A Curriculum Designed for the Industry by Industry Experts

Learning Path

Course Name - Mandatory Courses

CBAP® Certification Training

AI-Powered Business Analytics with Excel

GenAI-Powered SQL for Business Analysts

Microsoft Power BI with AI Assistance

RPA, Business Automation Basics and Process Mining

Agile Frameworks and Product First Thinking

Business Analysis Capstone Project

Elective Courses

- Essentials of Generative AI, Prompt Engineering, and ChatGPT
- Microsoft Azure Data Fundamentals

Learn Business Analysis Tools

Excel	MySQL	Power BI	Jira
ChatGPT	Copilot	+ableau	Confluence
draw.io	creately	Lucidchart	miro
asana	zapier		

Success Stories

Mohit Vishwakarma
Business Analyst

I had a fantastic and unique learning experience with Simplilearn's online lessons.
The self-paced classes allowed me to take lessons whenever it was convenient for me. I
was very impressed by the instructors because they were experts in their domains and
had a ton of practical experience. The industry experts as instructors was one of the
features of Simplilearn that I cherished the most.

Business Analyst Learning Blueprint

Module 1
CBAP® Certification Training

Duration: 36 Hours	Module-End Project: 7 Assessments / 500+ Practice Questions Across Modules

Case Studies: abcpharma · Coca-Cola · withum · Dow · accenture · amazon · General Electric · Microsoft

Key Learning Objectives

- Introduction to IIBA and BABOK v3
- Business Analysis Planning and Monitoring
- Elicitation and Collaboration
- Requirements Life Cycle Management

- Strategy Analysis
- Requirements Analysis and Design Definition
- Solution Evaluation
- Perspective

Topics you will learn

- IIBA Certifications (ECBA, CCBA, CBAP): Eligibility, Process & Benefits
- BABOK Framework & Business Analysis Core Concept Model (BACCM)
- Business Analysis Foundations, Techniques & Competencies
- Stakeholder Identification, Collaboration & Communication
- Requirements Classification & Business Analysis Governance
- Plan Business Analysis Approach & Methods
- Analyze Current State, Define Future State & Change Strategy
- Risk Assessment & Strategic Alignment
- Elicit, Confirm & Communicate Requirements

- Trace, Prioritize, Maintain & Approve Requirements
- Requirements Architecture, Modelling & Design Options
- Verify & Validate Requirements
- Analyze Potential Value & Recommend Solutions
- Measure & Analyze Solution Performance
- Assess Limitations & Recommend Value-Enhancing Actions
- Agile Perspective
- Business Intelligence Perspective
- Information Technology, Business Architecture & BPM Perspectives

Module 2
AI-Powered Business Analytics With Excel

| Duration: 18 hours | Module-End Project: Designing a Sales Dashboard in Excel |

Tools Used: | Excel | ChatGPT | AI Plugins |

Key Learning Objectives

- Introduction to Business Analytics

- Data Cleaning and Preparation

- Conditional Formatting and Important Functions

- Analyzing Data With PivotTables

- Dashboarding

- AI-Based Excel Learning

- Excel Advanced Tools: What-If Analysis and Macros

Topics you will learn

- Basics of analytics and projectlife cycle

- Types of analytics: descriptive, diagnostic, predictive, prescriptive

- Key domains: customer, financial, performance, risk analytics

- Excel basics: data import, cleaning, formulas, formatting

- Key Excel functions: logical, lookup, reference, statistical

- Pivot tables: features, grouping, advanced reporting

- Power Query & Power Pivot for ETL and multi-table analysis

- Data connectors & slicers for interactive filtering

- Dashboard design: principles, charts, interactivity

- What-If analysis: goal seek, data tables, scenario manager

- Macros & VBA: writing, running, scripting basics

- Spreadsheet AI: auto formula generation, tagging, summarizing

- Analyze Data tool in Excel: AI insights & use cases

Module 3
GenAI-Powered SQL for Business Analysts

Duration: 18 hours   Module-End Project: Employee Performance Mapping

Tools Used: MySQL   ChatGPT   GitHub Copilot

Key Learning Objectives

- Unleashing SQL Magic: A Dynamic Introduction to Database Mastery

- Working With Databases and Tables

- Working With Operators, Constraints, and Data Types

- Functions in SQL

- Joins, Set Operators, and Subqueries

- Window Functions in SQL and CTEs

- GenAI-Powered SQL

Topics you will learn

- Introduction to data and databases: Relational, NoSQL, Graph

- DBMS vs RDBMS

- ER modeling: diagrams, relationships, cardinality

- Data normalization & relationship types

- Database fundamentals: ACID, schemas

- Working with tables in MySQL: DDL & DML

- Data grouping, sorting & filtering: GROUP BY, HAVING, ORDER BY

- SQL data types, operators, and indexing

- Constraints: NOT NULL, primary key, foreign key

- Core SQL functions: string, date/time, aggregate

- Advanced SQL functions: window & scalar

- SQL aliases: table & column

- Joins: INNER, LEFT, RIGHT, USING

- Set operators: UNION, UNION ALL, MINUS emulation

- Subqueries & advanced subqueries

- Window functions & use cases

- SQL views vs tables, and CTEs

- Intro to AI-assisted SQL: ChatGPT, GitHub Copilot

- AI-driven query optimization: auto-indexing, execution plans

- AI tools for anomaly detection & performance forecasting

Module 4
Power BI Training

Duration: 21 hours	Module-End Project: Designing a Sales Dashboard in Excel

Tools Used: Power BI   ChatGPT

Key Learning Objectives

- Introduction to Power BI
- Connecting to Data Sources
- Prepare the Data
- Data Modeling

- Model Calculations With DAX
- Optimize Model Performance
- Visualize and Analyze the Data

Topics you will learn

- Business Intelligence overview & data analysis foundations
- Power BI architecture and core components
- Connecting to data: Excel, CSV, SQL, APIs
- Data source configuration & model selection
- Power BI data models & modeling modes
- Cleaning and shaping data with Power Query
- Data profiling, handling issues, and best practices
- Transform, merge, append, and load data
- AI-assisted data transformation and enhancements
- Designing a data model & defining relationships
- Table/column properties, cross-filtering & date tables

- Implementing row-level security (RLS)
- Introduction to DAX, measures & aggregations
- Advanced DAX: CALCULATE & time intelligence
- Creating measures with Quick Measures
- Performance tuning: remove excess data, optimize types
- Using Performance Analyzer & summarization
- Creating reports & visualizations
- Enhancing usability & storytelling with visuals
- Using AI tools to identify trends and patterns

Module 5

RPA, Business Automation Basics and Process Mining

| Duration: 3 hours | Module-end Project: Create a BRD to solve an RPA problem statement |

Tools Used: asana | zapier

Key Learning Objectives

- Introduction to Business Automation and RPA

- RPA Tools and Capabilities

- Identifying RPA Opportunities

- Documenting for RPA Teams

- Collaborating in RPA Projects

- Process Mining for Business Analysts

- Monitoring Compliance and Analyzing Delays

Topics you will learn

- What is business automation and why does it matters for BAs?

- RPA basics: triggers, bots, workflows

- Common RPA tools: UiPath, Automation Anywhere, Blue Prism

- Key RPA capabilities & identifying good use cases

- How to spot automation opportunities across industries

- Process documentation: pseudo-code, flowcharts, best practices

- Collaborating with RPA developers and testers

- BA's role in the RPA lifecycle

- Importance of change management in automation

- What is process mining, and how does it differ from BPM?

- Identifying inefficiencies, deviations, and bottlenecks

- Benefits of process mining for BAs

Module 6
Agile and Product Thinking

| Duration: 6 hours | Module End Project: Citibank US: Process automation -Agile Transitions |

Tools Used: | Jira | Confluence | draw.io | creately | miro | Lucidchart |

Agile Thinking and Methodologies

- ■ Foundations of Agile Thinking
- ■ Sample Diagrams, Documents, and Models Discussion

- ■ Agile Practices and Tools
- ■ Sets the Base for Practical Sessions

Product and Design Thinking

- • Why Product Thinking Matters
- • Areas of Business Impact
- • Stakeholder Management Techniques
- • Understanding Business Context and Design Challenges
- • To-Be Experience Mapping and Change Management
- • Tools and Frameworks for Strategic Thinking
- • Design Thinking and Product Thinking for BAs

- • BPMN Diagram Creation
- • Prototyping and Wireframing
- • Visual Modeling and Prototyping
- • Business Model Canvas & Value Proposition Canvas
- • SWOT Matrix, UML Use Case Diagrams, RACI, Stakeholder Mapping
- • Proof of Concepts, Wireframes, Mockups Using Industry Tools

Module 7
Business Analyst Capstone Project

Duration: 6 hours

Apply your business analysis skills to real-world scenarios using SQL, Excel, Power BI, and Gen AI tools. Work on hands-on projects in fraud detection, patient readmission, and retail analytics. Gain practical experience in data extraction, analysis, and visualization to drive business decisions.

Credit Card Fraud Analytics: Identifying Unusual Spending Behavior

Use SQL, Excel, and Power BI to detect and visualize credit card fraud in real time. Analyze transaction patterns, identify anomalies, and create logic-based alerts. Leverage Gen AI tools to generate insights and summaries, enabling faster response to suspicious activities.

Patient Readmission Analytics: Identifying High-Risk Patients for Proactive Care

Create a Power BI dashboard to predict patient readmission within 30 days using SQL for data extraction and Excel for risk stratification. Visualize trends and flag high-risk cases to support timely interventions and reduce healthcare costs.

Retail Analytics: Predicting Customer Responses and Optimizing Promotions

Analyze customer behavior and predict marketing responses using retail transaction data. Use SQL to extract data, Excel for pattern analysis and segmentation, and Power BI to visualize trends and campaign responses. Leverage AI-powered tools to enhance targeting and boost ROI.

Electives

Essentials of Generative AI, Prompt Engineering, and ChatGPT

Delve into AI basics and generative AI principles. Grasp the importance of explainable AI. Employ prompt engineering to enhance generative AI performance. Understand ChatGPT's mechanisms, features, and constraints. Explore varied ChatGPT applications. Gain foresight into generative AI's future and challenges.

Microsoft Azure Data Fundamentals

This course covers key data skills, including identifying data formats, storing data in files and databases, normalizing data, and using SQL. Learners work with relational databases, Azure Blob Storage, Cosmos DB, and Synapse Analytics. It also covers data ingestion, analytical modeling, and building effective Power BI reports.

Want to Know More About the Curriculum?

Talk to a Learning Consultant

Certificates as a Testament to Your New Skills

Simplilearn certificates are trusted by **2000+** companies globally.

Partnering with Microsoft

- Get official trophies and badges hosted on the Microsoft Learn portal
- Acquire an official Microsoft learning path completion transcript

Learners Who Have Transformed Their Careers

Prakash Rajiv

Manager, National Stock Exchange India Limited

The trainers and platform are excellent. The self-paced videos and live sessions allowed me to learn at my own time and pace. Completing the program gave me the confidence to excel in my role as a Business Analyst.

Musheer Ahmed Shaikh

Project Manager, Wipro

This program is well-designed and perfect for professionals looking to enhance their analytical and project management skills. The support from industry experts was invaluable.

Learn More About Our Flexible Financing Plan

Talk to a learning consultant >>>

Get Ahead With Simplilearn

Simplilearn is one of the world's leading digital upskilling platforms, trusted by learners worldwide for its industry-aligned programs and real-world projects.

3 Million+
Learners Trained

85% Course
Completion Rate

Learn Directly
From Industry Experts
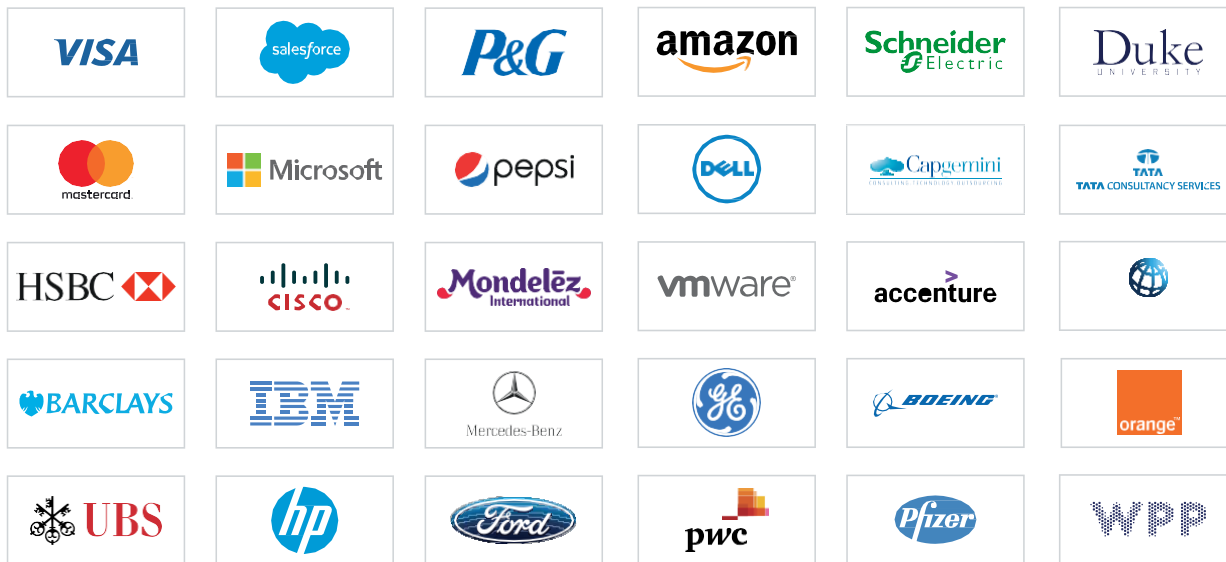
Want to Learn More? - We're Here to Help!

We're confident this program has everything you need to succeed as a Business Analyst – from cutting-edge tools to real-world projects. However, we also understand that choosing the right program is a big decision.

If you have any questions, our guidance counselors are here for you! They'll walk you through the program details, clarify doubts, and help you choose your career goals.

Your journey begins with a conversation.

TALK TO A COUNSELOR

Corporate Training

VISA | salesforce | P&G | amazon | Schneider Electric | Duke UNIVERSITY

mastercard | Microsoft | pepsi | DELL | Capgemini | TATA CONSULTANCY SERVICES

HSBC | CISCO | Mondelēz International | vmware | accenture

BARCLAYS | IBM | Mercedes-Benz | GE | BOEING | orange

UBS | hp | Ford | pwc | Pfizer | WPP

Features of Corporate Training

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Enterprise dashboards for individuals and teams

24x7 learner assistance and support

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