



# Usando o ambiente Watson para criar seus modelos de IA



**Fabio Lima**  
Data Scientist



# Access the IBM Watson Studio / Crie a sua conta gratuita

<https://dataplatform.cloud.ibm.com/home?context=analytics>

IBM Cloud Pak for Data

## Efetue login no IBM Cloud Pak for Data

Starter edition

Precisa de uma conta? [Inscreva-se e tente gratuitamente](#)

Nome do usuário

Esqueceu o ID?

Insira seu IBMid

Continuar →

Lembrar ID



IBM Cloud Catálogo

Catálogo

Categoria

- Cálculo
- Contêineres
- Rede
- Armazenamento
- IA/Aprendizado de máquina
- Análise de dados
- Blockchain
- Banco de dados
- Ferramentas de desenvolvedor
- Criação de Log e Monitoramento
- Integração
- Internet of Things
- Segurança

Procurar no catálogo ...

Watson Assistant

IBM • IA/Aprendizado de máquina

O Watson Assistant permite que você construa interfaces de conversação em qualquer aplicativo, dispositivo ou canal.

Lite • Grátis • Ativado para IAM

Watson Studio

IBM • IA/Aprendizado de máquina

Integre a IA e o aprendizado de máquina aos seus negócios. Crie modelos personalizados usando seus próprios dados.

Lite • Grátis • Ativado para IAM

Annotator for Clinical Data

IBM • IA/Aprendizado de máquina

Analyze text to extract medical codes and concepts such as diseases, lab values, medications, procedures and more.

Lite • Grátis • Ativado para IAM

Compare and Comply

IBM • IA/Aprendizado de máquina

Procresse documentos de controle para converter, identificar, ordenar e comparar elementos importantes

Lite • Grátis • Ativado para IAM • Beta

Discovery

IBM • IA/Aprendizado de máquina

Inclua um mecanismo de analítica de conteúdo e procura cognitiva nos aplicativos.

Lite • Grátis • Ativado para IAM

Knowledge Catalog

IBM • IA/Aprendizado de máquina

Descubra, catalogue e compartilhe dados corporativos com segurança.

Lite • Grátis • Ativado para IAM

Knowledge Studio

IBM • IA/Aprendizado de máquina

Language Translator

IBM • IA/Aprendizado de máquina

Machine Learning

IBM • IA/Aprendizado de máquina • Preço por uso

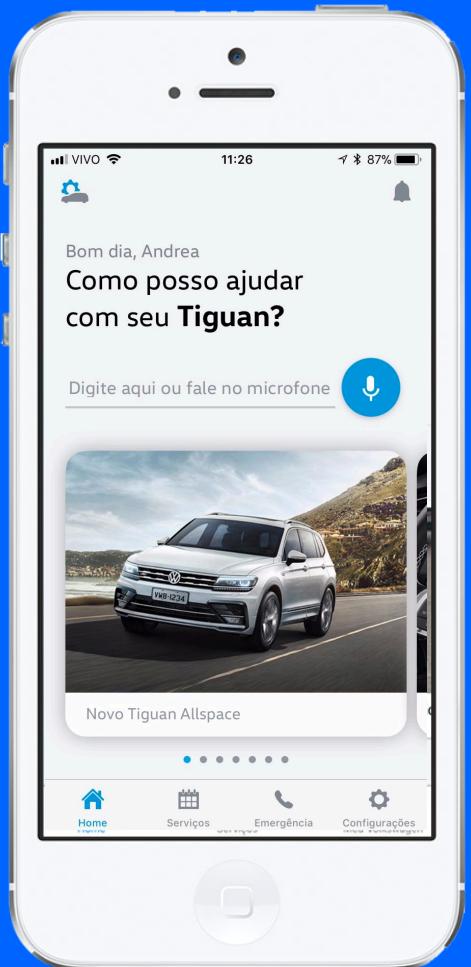
FEEDBACK

3

# Manual Cognitivo do VW Virtus, Tiguan e Jetta



FIAP



**Faça perguntas ao manual do  
Virtus, Tiguan ou Jetta utilizando  
linguagem natural**

Voz Texto

**Entenda as luzes** do painel do com o  
recurso de **reconhecimento de imagem**

With  
Watson®

Respostas em **linguagem natural**

Voz Texto Imagem

**2 idiomas:** Português e Espanhol



**Watson Assistant**

IBM • IA/Aprendizado de máquina



**Visual Recognition**

IBM • IA/Aprendizado de máquina



**Speech to Text**

IBM • IA/Aprendizado de máquina



**Text to Speech**

IBM • IA/Aprendizado de máquina



**Personality Insights**

IBM • IA/Aprendizado de máquina



**Tone Analyzer**

IBM • IA/Aprendizado de máquina



**Natural Language Understanding**

IBM • IA/Aprendizado de máquina



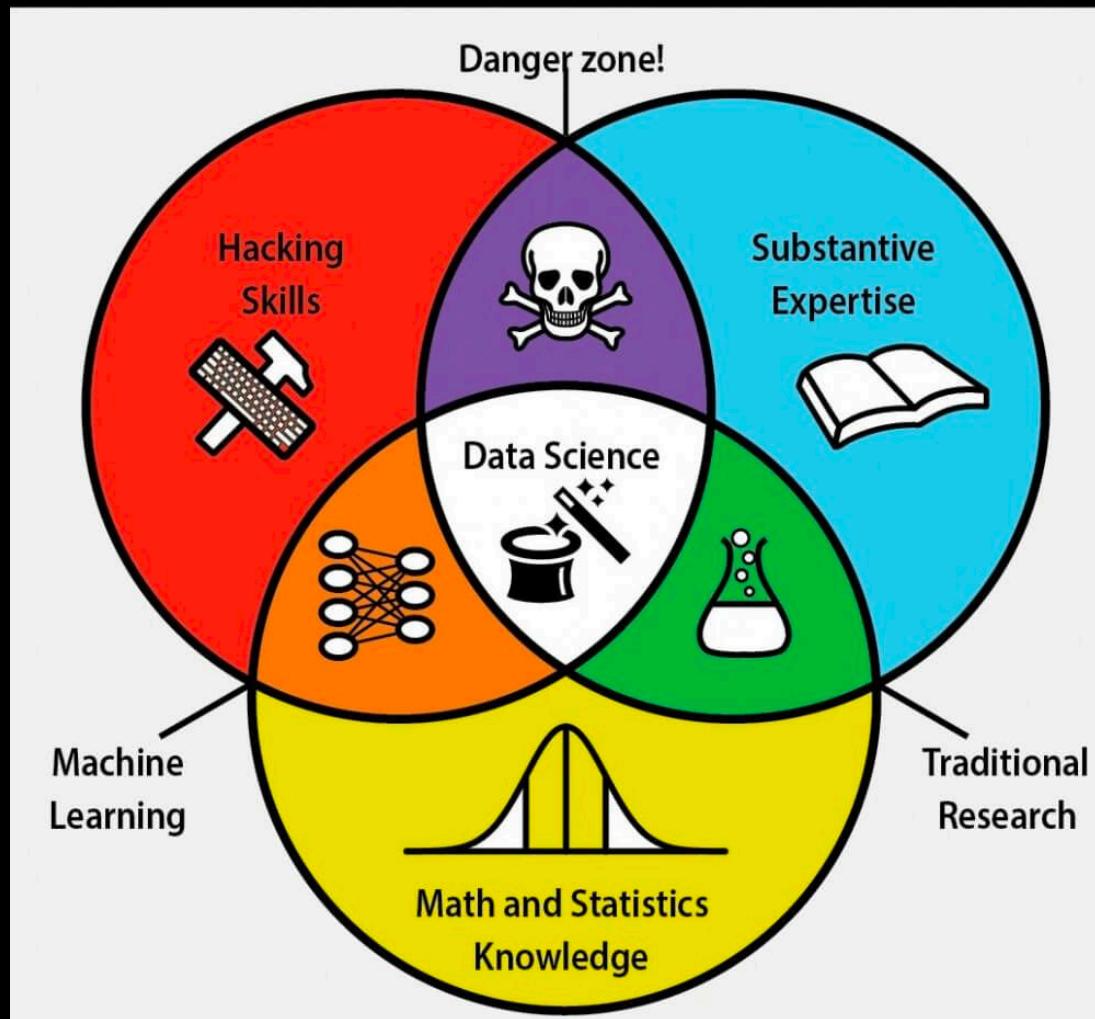
**Knowledge Studio**

IBM • IA/Aprendizado de máquina

IBM<sup>®</sup>

# Cientista de Dados

## DATA SCIENCE SKILLSET



# Automação do ciclo de vida de IA

Operacionalizando IA com transparência e confiança

FIAP

## Preparar

## Criar

## Executar

## Gerenciar

DataOps

Data Profiling

Quality and Lineage

Data Governance

Train at Scale

Data Exploration

Data Preparation

Model Development

MLOps

Model Management

Model Deployment

Model Re-training

Trust and Explainability

Accuracy

Fairness and Explainability

Automated Anomaly and Drift Detection



**Organize Data for AI**  
Data Engineer



Knowledge Catalog



**Build AI**  
Data Scientist



Watson Studio



**Run AI**  
App Developer



Machine Learning



**Consume AI**  
Business user



Watson OpenScale

IBM

# IBM Watson Studio

Enterprise Data Science platform that helps your team work together to build models to make better data driven decisions for your business



## Analyze any data, no matter where it lives

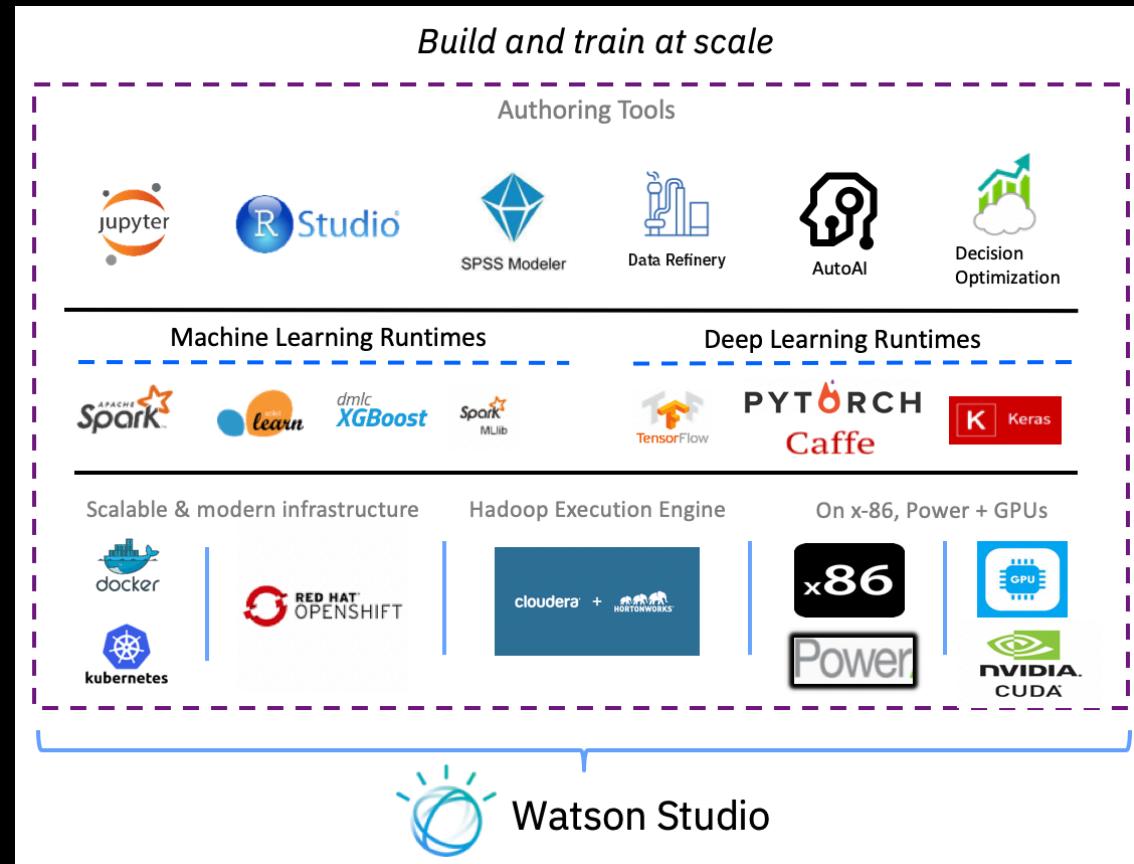
Connect to and analyze your data without moving a single byte through dozens of connectors and multiple deployment options

## Empower your entire organization with notebooks, visual productivity, and automation tools

Leverage your entire organization with a variety of tools in a single integrated platform

## One platform to rule them all from discovery to production

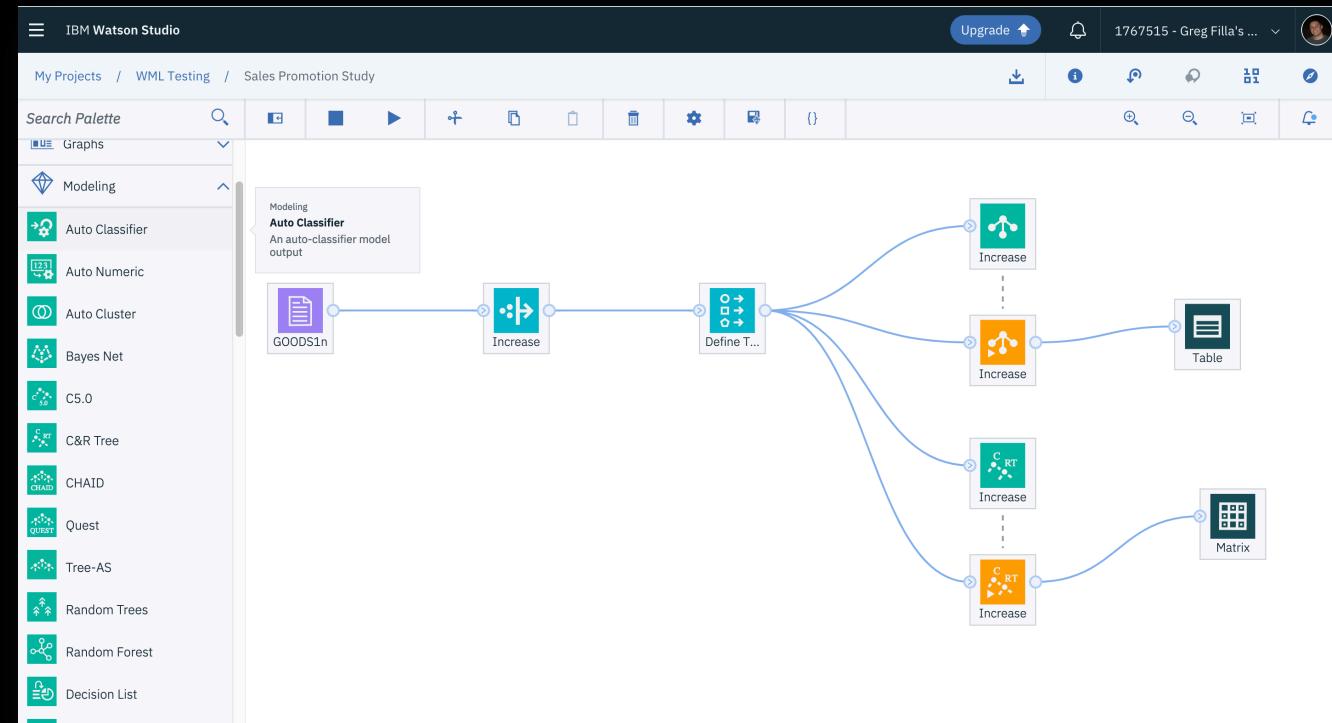
Analyze data, build predictive models, and seamlessly integrate Watson Machine Learning to deploy at scale



# SPSS Modeler para Watson Studio

FIAP

- SPSS Modeler está *incorporado* no Watson Studio
- Watson Studio trás o melhor dos dois mundos por suportar fluxos de SPSS legado e também o melhor da geração de código aberto

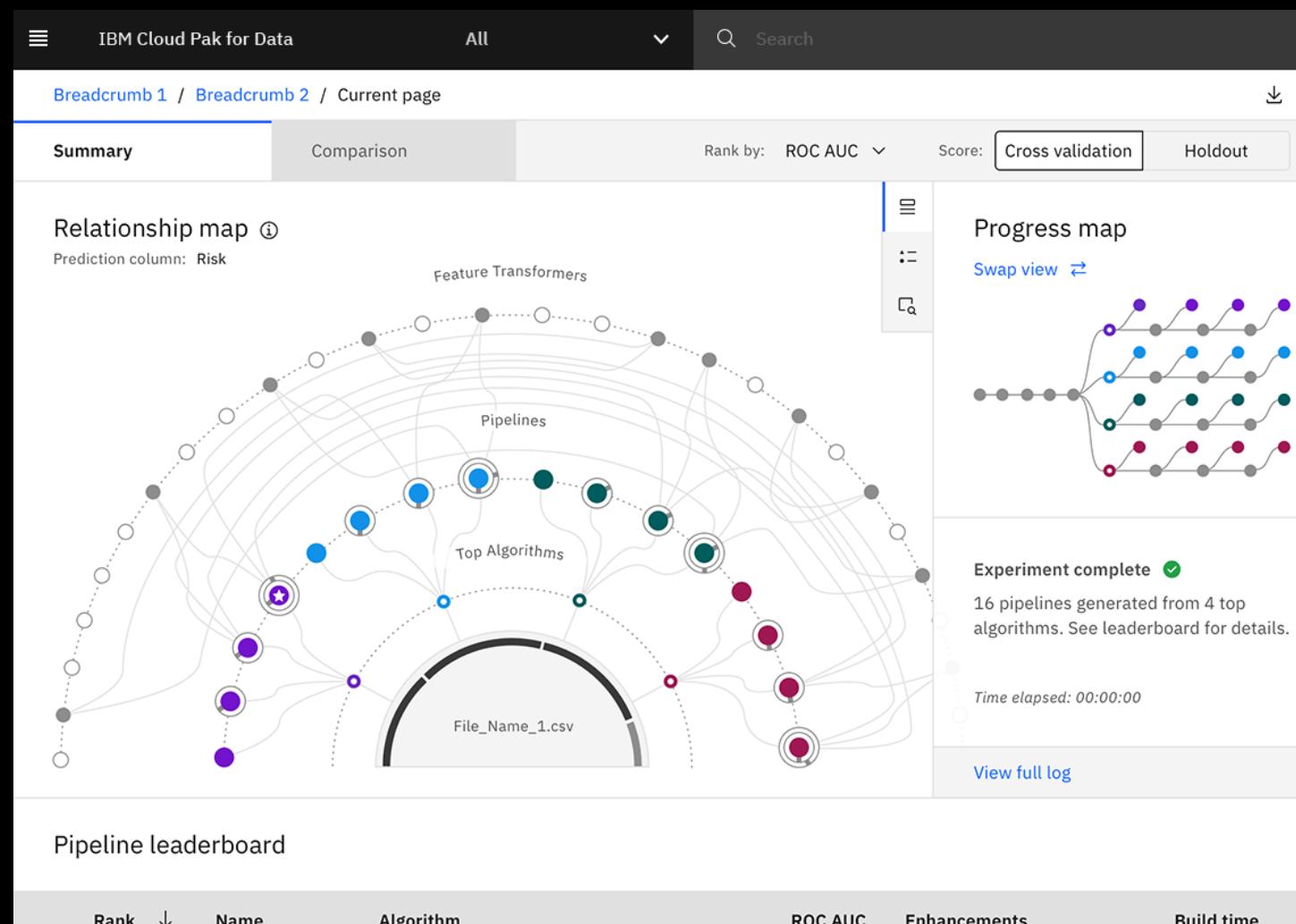


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# Watson Studio AutoAI

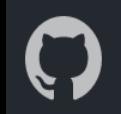
FIAP

- Integrado com **Watson Studio** e **Watson Machine learning**
- Ingerir, limpar, transformar e modelar automaticamente com preparação de dados, seleção de modelo, engenharia de recurso e otimização de hiperparâmetro
- Visualização de feedback de treinamento fornece resultado em tempo real para ver o desempenho do modelo
- Binário, Multiclasse e suporte a regressão
- Implantação com um clique no Watson Machine Learning



IBM

# Arquivos



<https://github.com/fabioflima/FIAP>

The screenshot shows a GitHub repository page for the user fabioflima named FIAP. The repository has 1 branch and 0 tags. The master branch is selected. The commit history shows a single commit from fabioflima titled "Add files via upload" with hash a77fde5, made "now". This commit includes three files: Auto AI.pdf, SPSS Modeler Lab 1.pdf, and bank-marketing.csv, all added via upload.

File	Action	Time
Auto AI.pdf	Add files via upload	now
SPSS Modeler Lab 1.pdf	Add files via upload	now
bank-marketing.csv	Add files via upload	now

<https://cognitiveclass.ai/>

Accelerate your Data Scientist skills

The screenshot shows the homepage of the BIG DATA UNIVERSITY website. The top navigation bar includes links for Learning Paths, Courses, Badges, Events, Blog, and Resources. A search bar and login/signup links are also present. The main visual is a close-up of a person's eye. The central text reads "Analytics, Big Data, and Data Science Courses" and "Your awesome career in Data Science and Data Engineering starts here." A blue button says "Free Courses Sign Up". A vertical "Support" link is on the right. Below the main image, an orange section asks "What are the benefits?" and lists three: "IT'S FREE", "EARN BADGES", and "EXPAND YOUR KNOWLEDGE", each with an icon and a brief description.

**BIG DATA UNIVERSITY**

Learning Paths Courses ▾ Badges ▾ Events Blog Resources ▾

Explore new learning opportunities

Login Sign Up

Analytics, Big Data, and Data Science Courses

Your awesome career in Data Science and Data Engineering starts here.

Free Courses Sign Up

Support

What are the benefits?

**IT'S FREE**

Our courses are free so you have nothing to lose!

**EARN BADGES**

Earn badges for your portfolio

**EXPAND YOUR KNOWLEDGE**

We have courses for all skill levels

IBM

# <https://cognitiveclass.ai/>

Accelerate your Data Scientist skills

The screenshot shows the 'COURSES' section of the Cognitive Class website. The page features a grid of eight course cards:

- Build Your Own Chatbot (Beta)** - Cognitive Class CB0103EN. Beginner level.
- Big Data 101** - Cognitive Class / Fireside Analytics Inc. BD0101EN. Beginner level.
- Data Science 101** - Cognitive Class / Fireside Analytics Inc. DS0101EN. Beginner level.
- Hadoop 101** - Cognitive Class BD0111EN. Beginner level.
- Python 101** - Cognitive Class PY0101EN. Beginner level.
- R 101** - Cognitive Class RP0101EN. Beginner level.
- Scala 101** - LightBend SC0101EN. Beginner level.
- Deep Learning Fundamentals** - DeepLearning.TV ML0115EN. Intermediate level.

A 'Support' button is located on the right side of the grid.