

# Big Data Computing

Master's Degree in Computer Science

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UNIVERSITÀ DI ROMA

# The Last Take Home Message

# What Did We (Hopefully) Learn?

Data is generated at an unprecedented rate

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Traditional algorithms/techniques often don't **scale** very well

There is the need for **new "tools"** which allow **storing, managing, and analyzing** big data painlessly

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Big Data Computing skills are extremely **sought-after**, yet **not** everyone who claims to be a Big Data expert actually is

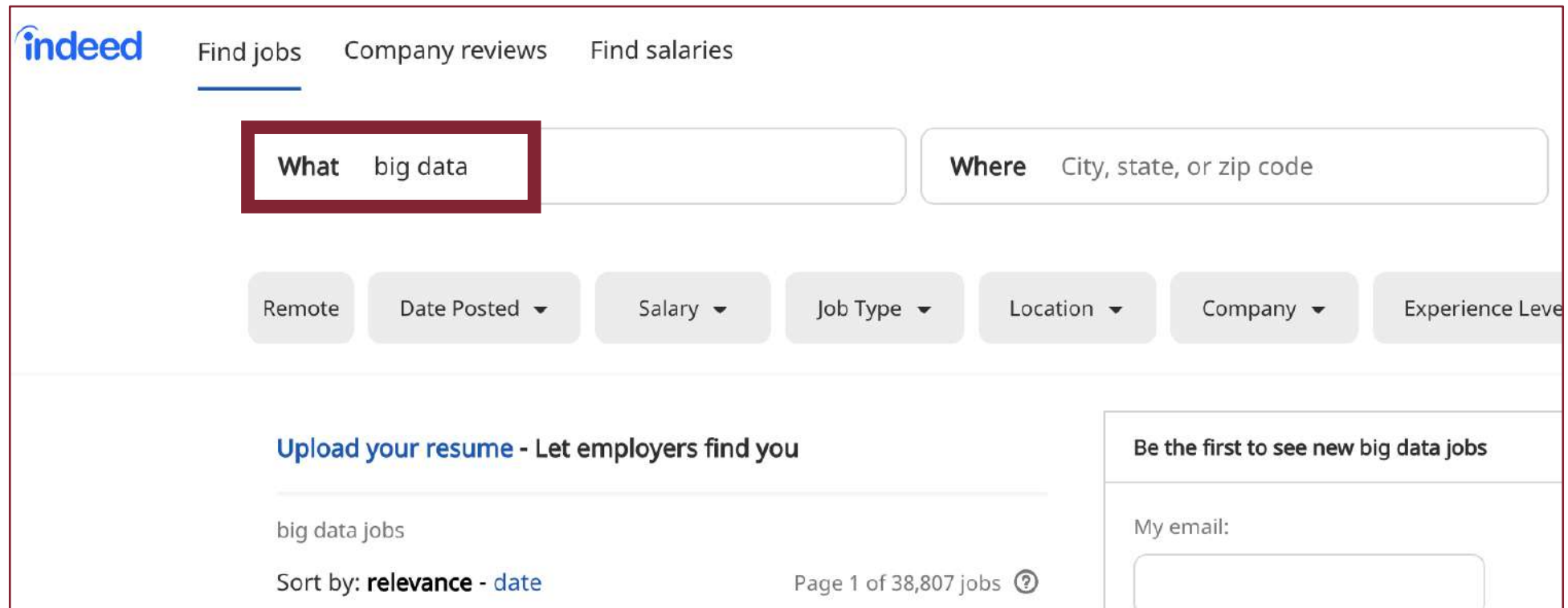
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Mastering the **theoretical** and **practical** aspects of Big Data Computing allows us to **stand out** in a **highly competitive** job market

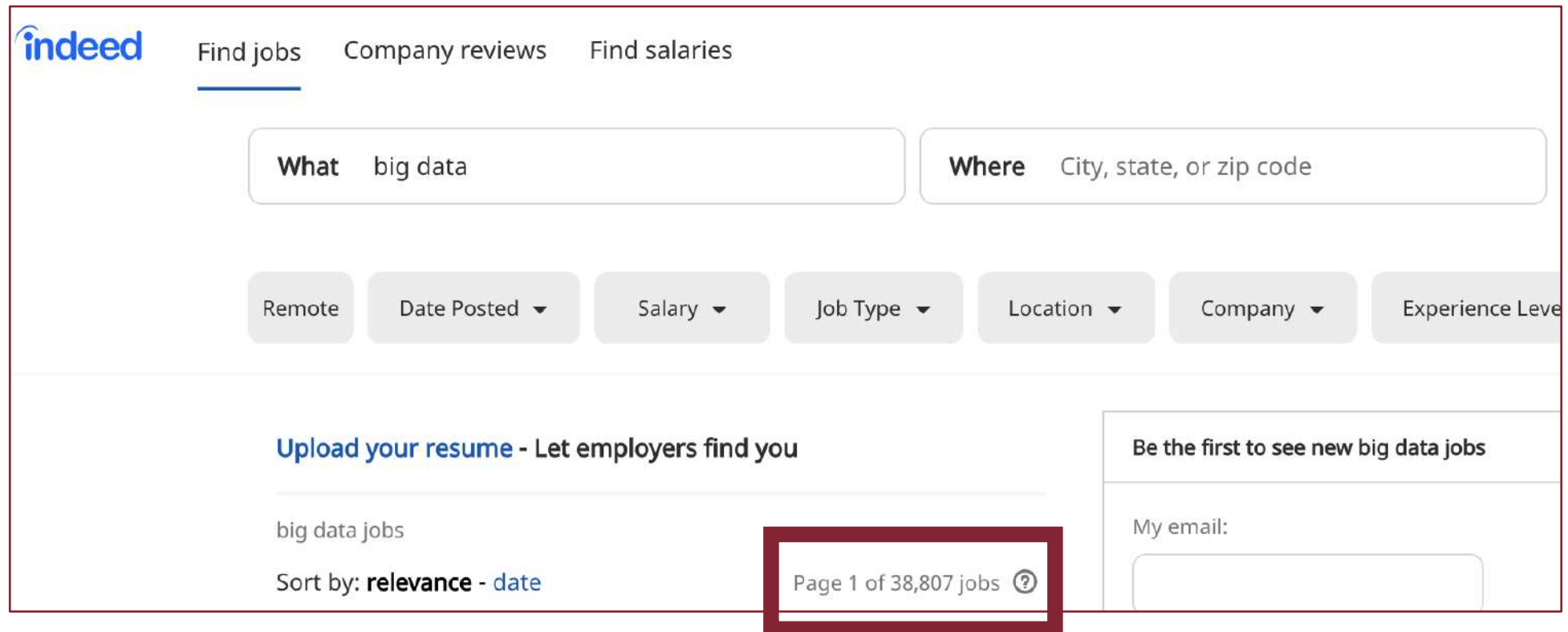
# A Few Numbers...



The screenshot shows the Indeed job search interface. At the top, there are three tabs: "Find jobs" (which is underlined), "Company reviews", and "Find salaries". Below the tabs, there are two main search input fields. The first field is labeled "What" and contains the text "big data"; this field is highlighted with a dark red rectangular border. The second field is labeled "Where" and contains the placeholder text "City, state, or zip code". Below these fields, there is a row of seven filter buttons: "Remote", "Date Posted" (with a dropdown arrow), "Salary" (with a dropdown arrow), "Job Type" (with a dropdown arrow), "Location" (with a dropdown arrow), "Company" (with a dropdown arrow), and "Experience Level" (with a dropdown arrow). Below the filters, there is a section titled "Upload your resume - Let employers find you". To the right of this section, there is a box titled "Be the first to see new big data jobs" which contains a label "My email:" and an empty input field. At the bottom left, it says "big data jobs" and "Sort by: relevance - date". At the bottom right, it says "Page 1 of 38,807 jobs" followed by a help icon.

<https://www.indeed.com/jobs?q=big+data&l=>

# A Few Numbers...



The screenshot shows the Indeed job search interface. At the top, the Indeed logo is on the left, and navigation links for 'Find jobs', 'Company reviews', and 'Find salaries' are on the right. Below these are two search input fields: 'What' with the text 'big data' and 'Where' with the placeholder 'City, state, or zip code'. Under the search fields is a row of filter buttons: 'Remote', 'Date Posted' (with a dropdown arrow), 'Salary' (with a dropdown arrow), 'Job Type' (with a dropdown arrow), 'Location' (with a dropdown arrow), 'Company' (with a dropdown arrow), and 'Experience Level' (with a dropdown arrow). Below the filters, there are two promotional boxes. The left box is titled 'Upload your resume - Let employers find you' and contains the text 'big data jobs' and 'Sort by: relevance - date'. The right box is titled 'Be the first to see new big data jobs' and contains the text 'My email:' followed by an input field. At the bottom center, a red box highlights the text 'Page 1 of 38,807 jobs' with a help icon.

indeed Find jobs Company reviews Find salaries

What big data Where City, state, or zip code

Remote Date Posted ▾ Salary ▾ Job Type ▾ Location ▾ Company ▾ Experience Level ▾

Upload your resume - Let employers find you

big data jobs

Sort by: **relevance** - date


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Page 1 of 38,807 jobs ?

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# Show Me The Money!



Search

Overview

**Salaries**

Skills

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Companies

Questions

Articles

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## How much does a Data Scientist make in the United States?

Per year ▼



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## How much does a Data Scientist make in the United States?

Per year

Average base salary ?

4.6k salaries reported, updated at May 22, 2020

**\$123,516**

per year

The average salary for a data scientist is \$123,516 per year in the United States.

Most common benefits

Commuter assistance

Health savings account

401(k)

Health insurance

Paid sick time

[View more benefits](#)



# Seriously, This Is Not Just About The Money!

You may have the chance to land on a job at one of the coolest tech companies out there

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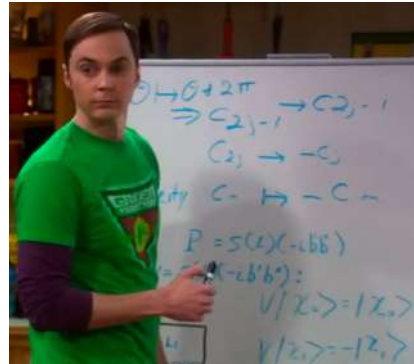


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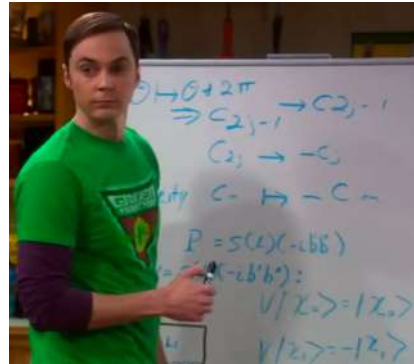
# This Is Surely Not About The Money!

You may also think of pursuing a career in academic research!



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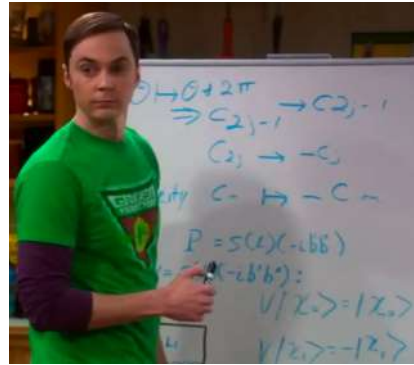
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A lot of different areas underneath the Big Data Computing umbrella which are worth considering

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A lot of different areas underneath the Big Data Computing umbrella which are worth considering

Autonomous Driving

Federated Learning

Natural Language Processing

Computer Vision

Adversarial Learning

# To Wrap Things Up

If your ambition is to compete for a job at a top-level company  
or start a career in academic research  
you should consider getting a **PhD** on these topics

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In the meantime, I am always looking for **talented** and **passionate**  
students who wants to work on the following areas

Web Search and Mining

Computational Advertising

Secure Machine Learning

Explainable AI

Federated Learning

Thank You!