

Big Data Computing

Master's Degree in Computer Science

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SAPIENZA
UNIVERSITÀ DI ROMA

The Last Take Home Message

What Did We (Hopefully) Learn?

Data is generated at an unprecedented rate

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Extracting knowledge from such big data is incredibly **valuable**

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

Why Did We Learn It?

Many companies (even non-ICT ones) rely on **Big Data Analytics** to improve their business and stay ahead of competitors

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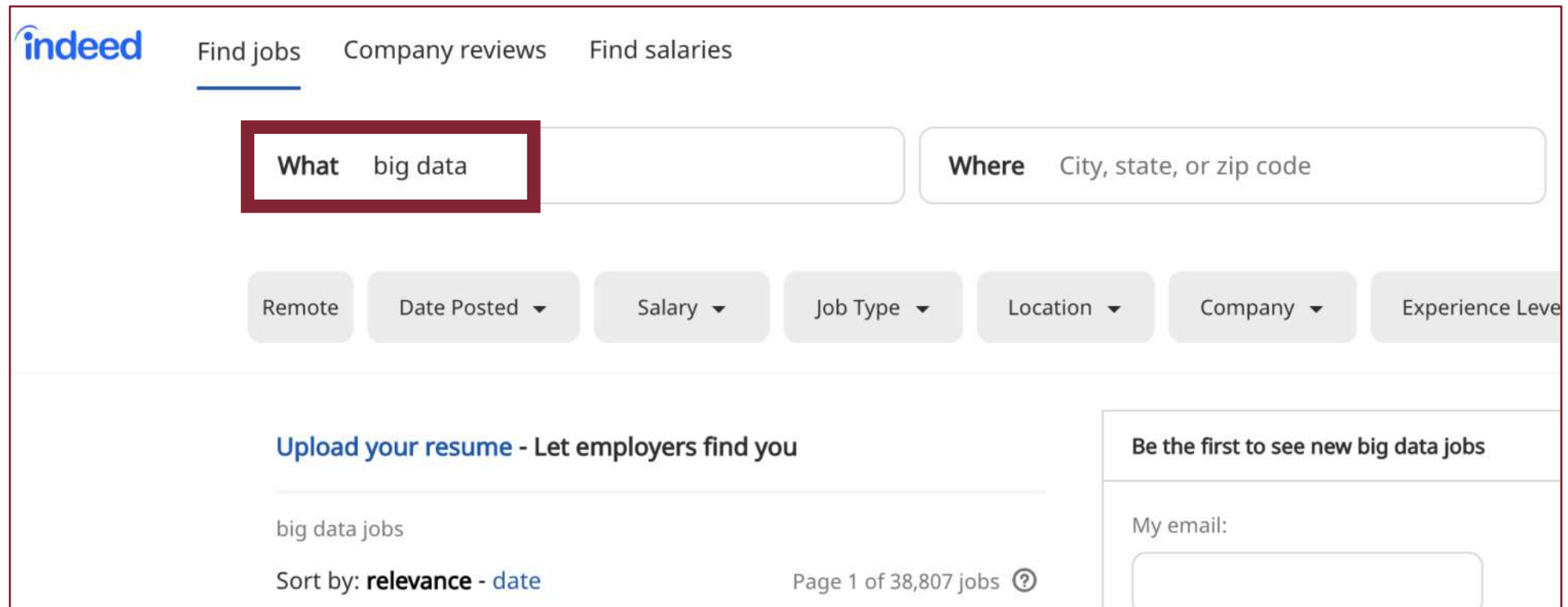
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Mastering the **theoretical** and **practical** aspects of Big Data Computing allows us to **stand out** in a **highly competitive** job market

A Few Numbers...



The screenshot shows the Indeed job search interface. At the top, the Indeed logo is on the left, and navigation links for 'Find jobs', 'Company reviews', and 'Find salaries' are on the right. Below these, there are two main search input fields: 'What' and 'Where'. The 'What' field contains the text 'big data' and is highlighted with a red rectangular border. The 'Where' field contains the placeholder text 'City, state, or zip code'. Below these fields, there 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 is a section for 'Upload your resume - Let employers find you' with a link to 'big data jobs'. To the right of this, there is a section for 'Be the first to see new big data jobs' with a label 'My email:' and an input field. At the bottom, there is a 'Sort by: relevance - date' link and a page indicator '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](#)

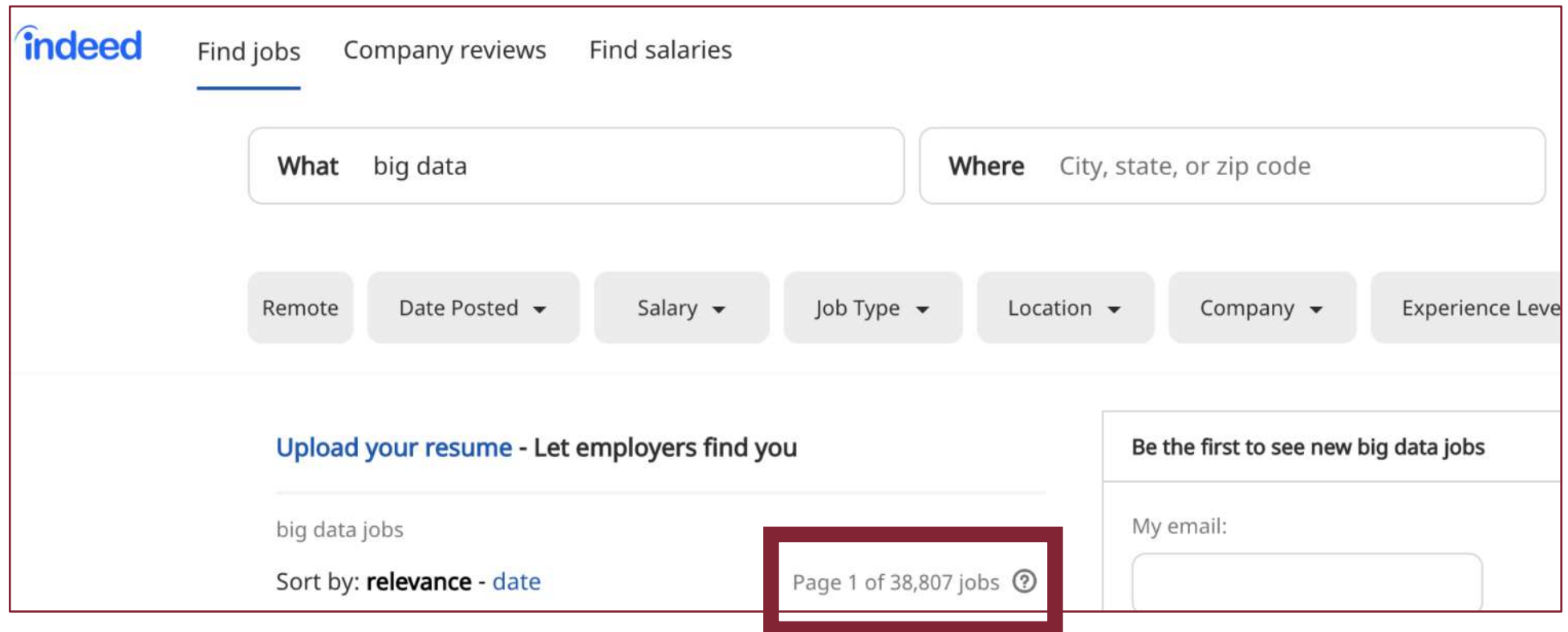
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Be the first to see new big data jobs

My email:

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

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indeed Find jobs Company reviews Find salaries

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

Show Me The Money!



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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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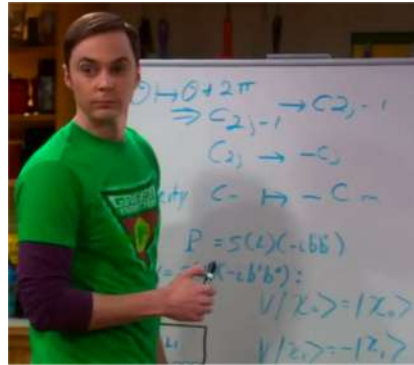


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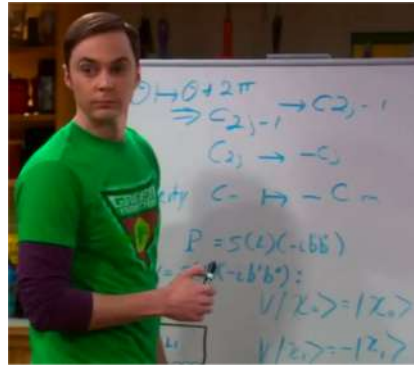
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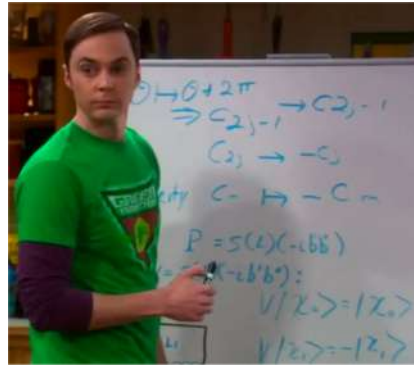
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A lot of different areas underneath the Big Data Computing umbrella which are worth considering

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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

Thank You!