

Pacsoft interview questions

1. Please use python to build a crawler for the following website: (25%)

Website: <https://academic.microsoft.com>

Description:

Input: Bayesian operational modal analysis: Theory, computation, practice

Output: {affiliations:[...], authors:[...], journal:'...'} (json format)

The answers of output are in the following link:

<https://academic.microsoft.com/#/search?iq=%40Bayesian%20operational%20modal%20analysis%3A%20Theory%2C%20computation%2C%20practice%40&q=Bayesian%20operational%20modal%20analysis%3A%20Theory%2C%20computation%2C%20practice&filters=&from=0&sort=0>

2. Please pack the Q1 function as an API(post way) in flask framework (5%)

3. Please use python to build a crawler for the following website: (30%)

**Only need to crawl the data from the exactly page from the website*

Website: <https://scholar.google.com/scholar?oi=bibs&hl=en&cites=7127218252840885994>

Description :

Input: Website

Output : {paper_title:[...]}

Example of paper_title:

Molecular mechanisms of epithelial–mesenchymal transition 、

Large-scale genotyping identifies 41 new loci associated with breast cancer risk

4. Parse the paper titles form attachment file “free text mining.txt”: (20%)

Description :

input: free text mining.txt

output: the exactly same as the output for Q3

5. Please generate the .docx file as the picture below: (20%)

[Logo of Affiliation]

RedClock, PhD

Petition Letter

Summary: My Curriculum Vitae is in [Exhibit O1]. I am a scientist in the XXXX field. I obtained my Ph.D. degree from XXXX in yyyy (Ph.D. diploma in [Exhibit O2]). I am now a XXXX at XXXX (job verification and employer information in [Exhibit O3]). My legal documents are in [Exhibit O4, O5].

Expert Testimony Letters: Please see [Exhibit O6–O11].

I. I am an alien of extraordinary ability

I-A. Authorship of Scholarly Articles

As my CV in [Exhibit O1] shows, and summarized below: I have exceptional publication records in multiple prestigious peer-reviewed journals with worldwide circulation:

Journal Publications: 2x (See [Exhibit A1-A2x] for the first pages of my articles)
Conference Abstracts: 1x (See [Exhibit A2x-A32] for the abstracts)

A-a. My publications are extraordinary, as they appeared in the leading journals and proceedings with international circulations.

Publication in the scientific world is peer-reviewed and highly competitive. Therefore, only the **most innovative** and **most rigorous** works get accepted and published in top-ranking international journals. As TABLE 1 shows below, **my publications appeared in international journals that are very top in related areas.**

TABLE 1. Impact Factors (IFs) and ranks of journals where I published scholarly articles.

Journals that Published my Articles	Impact Factor	Journal Ranking	Exhibit
Journal XYZ	4.xxx	Top 0.25% (#3/1193 in the xyz field)	[Exhibit A33]
Journal XZY	4.xxx	Top 0.75% (#3/395 in the xzy field)	[Exhibit A36]
Journal YXZ	3.xxx	Top 1.00% (#3/276 in the yxz field)	[Exhibit A39]
Journal YZX	3.xxx	Top 3.00% (#10/354 in the yzx field)	[Exhibit A42]
Journal ZXY	2.xxx	Top 15.0% (#38/276 in the zxy field)	[Exhibit A44]

== Below are more detailed introductions of these journals and proceedings ==

Journal XYZ ranks top 0.25% (#3 from 1193) journals in the xyz field [Exhibit A33]. "The journal publishes original contributions on xxx." [Exhibit A34]. It is published by IEEE, "the world's largest technical professional society", with "over 395,000 members in 160 countries". [Exhibit A35].

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