

**Offer Enricher and Ranker API Specification**

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| **Revision** | **Notes** |
| Draft 1.0 | Inital draft specification |

**Compute offer ranking**

*Compute and retrieve the ranking of the offers for a given trip request.*

*Requires basic authentication with the following credentials:*

* *Username:* ride2rail
* *Password*: Ride-Two-Rail-OC-2022

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| **POST** | http://84.88.76.45:808/api/v1/compute |

**Sample request**:

Assuming the traqel solution in TRIAS format are locally available in a <trias\_data> file:

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| curl -u 'ride2rail:Ride-Two-Rail-OC-2022' --request POST --data-binary <trias\_data> http://84.88.76.45:808/api/v1/compute |

**Sample response**:

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| {  "result": [  {  "offer\_id": "36e5c5b9-b434-40c4-8017-9ec79578813a",  "blockchain-incentives": {  "10discount": true,  "20discount": false,  "trainSeatUpgrade": false  },  "categories": {  "cheap": 0.2616,  "comfortable": 0.3955398314322447,  "door-to-door": 0.0,  "environmentally\_friendly": 0.0,  "healthy": 0.14744406609914873,  "multitasking": -0.4992347777682693,  "panoramic": 0.0,  "quick": 0.9539,  "reliable": 0.4426090624625028,  "short": 0.6759999999999999  },  "ranking": {  "rank": 1,  "score": 0.43816772617868616  }  },  {  "offer\_id": "731d2c82-e158-4d87-8cd6-df9bbcc647e6",  "blockchain-incentives": {  "10discount": false,  "20discount": false,  "trainSeatUpgrade": false  },  "categories": {  "cheap": 0.2616,  "comfortable": -0.5249305708972142,  "door-to-door": 1.0,  "environmentally\_friendly": 1.0,  "healthy": 1.0,  "multitasking": 0.513726269524929,  "panoramic": 0.0,  "quick": 0.3447,  "reliable": 0.20642271782731245,  "short": 0.7065581457843468  },  "ranking": {  "rank": 0,  "score": 0.8307028869429969  }  }  ]  } |

Notes:

* The values for *offer\_id* in the response is automatically generated
* The values for *rank* depend on the *score* and go from 0 (highest *score*) to *number of offers – 1*