

SOCIAL AND COGNITIVE INFORMATICS LABORATORY



EDFITTER AN AI-SYSTEM FOR MATCHING LEARNING CURRICULA WITH JOB MARKET Social and cognitive informatics Lab (SCILA) HSE-Yandex lab for natural language processing

EdFitter is an innovative Al-driven platform designed to align university curricula and personalized learning paths with the dynamic skill demands of today's job market. Developed by a dedicated team at the Higher School of Economics in St. Petersburg, Russia, under the expert guidance of Prof. Sergey Koltcov, EdFitter is set to revolutionize how education meets industry needs...

MOTIVATION

- Addressing the gap: There is an increasing disconnect between the skills imparted by educational institutions and those sought by employers in a rapidly changing job landscape.
- Adapting to change: As industries evolve, new roles and competencies arise, requiring continuous updates to educational programs to keep pace with these advancements

EDFITTER TARGET AUDIENCE

- Individual students and prospective students seeking to optimize their personalized learning trajectory
- Job seekers: alumni seeking to find vacancies based on the set of their skills acquired during education
- Educators: curricula and course developers and educational managers
- Educational policy makers: government decision makers seeking to match national educational strategies with job market needs and to optimize funding allocation

ARCHITECTURE



FUNCTIONALITY

EdFitter uses information from vacancy descriptions available at job search websites, curricula and course syllabi from a particular university (or a pool of educational organizations / platforms), and individual student queries on their desired jobs. By jointly analyzing this data, EdFitter serves the following goals by generating respective recommendations:

• Learning strategy development: Advice for individual students on course choice and their personalized learning trajectory, given their interest in specific jobs



• Curriculum development: advice on changing course composition, sequence and content in existing curricula and on building new degree and non-degree programs (under construction)



PROTOTYPE INTERFACE

and C						Шаг 2:	Оценка
DevOp	s Team Lead (laas)						
Описание вака	нсии						
entertainmen and support OpenStack (o problems and experience as software deve platforms; Ha components: test runs, etc. members; Ful conferences; l equipped offi possibility of s	t. We believe the the laaS(cloud) wer 400 hosts in operational issues a team lead or elopment and hig ands-on experier nova, neutron, i Conditions: A st I relocation pack Language course ce in the center self-realization, a	at by providir team as a Le n 8 installatio ues; Technical manager; Pro gh-load proje- nce deploying ironic, placem teep springbo kage (tickets t res, mindfulne r of the city; M and the possil	ing people with the l ead; Deliver adequa ons Yoga).Ironic with I interviews and clos oven track record of cts; A mastery of Lin g Linux Containers nent, swift, glance, k and for personal and to Limassol for you ess webinars, corpor Medical insurance for bility to influence te	best and high te monitoring boll iDRAC9 se communica building effici ux. Know why in production eystone and e professional and your fami rate discounts or the whole fac chnical decision	est-quality live g and failsafe s VM on local st tion with the m ent teams, incl things work or with any con tc.; Expert und growth; Emplo ly, taxi to the o on Coursera a amily, mobile p ons making; Big	streaming exp solutions(HA, I torage without ecruitment tea luding hiring, p in a Linux syste tainer schedu erstanding of t ryment contrai ffice, apartme ind other platf package, supp g friendly comi	berience in entertainment, we can tackle the world's "problems" better, together! Responsibilities: Dev DRP) for OpenStack cloud; Support and scale company:Internal Open Source cloud solution.Our clout t FC/iSCSI; Team load Management; Plans, organizes and implements strategies to achieve goals; So am; Addresses challenges and operational issues. Requirements: Minimum of 2 years of people manager performance management, and development; Broad technical outlook and deep understanding of mo- m - not just how to configure them; Experience with large-scale deployments involving private and/or hy ling technology; Expert knowledge of OpenStack in the area of architecture and interaction of plati- the ability to implement Infrastructure as Code principles: terraform, ansible, full-fledged CI with linters ct under EU law, fully white salary, work visa for 3 years, company support in obtaining work visas for fa- nts for the first month at our expense); Developing your professional competencies through courses an orms, corporate incentive programs; Free catering in the office, and a free cafeet; a with a health bar; ort with the purchase of a car, and covering of school/kindergartens expenses; New MacBook / iMac; munity, IT international teams, corporate events, team buildings, and hackathons.
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• Job search: advice on jobs best fitting the existing skills of an individual alumnus (under construction)

Input: Pool of skills from individual learning trajectory description



Output: Recommendations on vacancies from labor market

DevOps	0.5324			Управление инновационными и венчурными проектами		
DevRel для бизнеса	0.4943			Анализ и постановка задачи на создание информационных систем		
Проектный семмнар "Python в науке о данных"	0.4905			Управление программными проектами		
Промышленные компании	0.4840			Менеджжент ИТ-проектов		
Управление командой проекта	0.4834			Улравление ИТ-проектами		
Управление инновационными и венчурными проектами	0.4833			4	►	
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Научно-исследовательский семинар «Современные технологии разработки программного обеспечения»	0.4784		-	Укавита Вашу ацаниу	. 3	
4						
Оценка объединения по шкале от 1 до 10 Укаките Вашу оценку						

GENERALIZABILITY

- Adjustable to other languages
- Expandable beyond a particular university
- Tunable for multiple job markets and sectors