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نادي كتاب الذكاء الاصطناعي

اسم الكتاب:

اللعب على حافة الذكاء الاصطناعي (سلسلة مورغان كوفمان في الذكاء الاصطناعي): Blondie24

Blondie24: Playing at the Edge of AI (The Morgan Kaufmann Series in Artificial Intelligence)

إعداد الفريق العلمي:

نادي كتاب الذكاء الاصطناعي

إشراف المهندس: عبدالله بن إبراهيم الحجي



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لقد اختار الفريق العلمي لنادي كتاب الذكاء الاصطناعي هذا الكتاب للتعريف به

إن برنامج "بلوندي 24" يروي قصة كمبيوتر علم نفسه كيفية لعب الداما بشكل أفضل كثيراً مما كان ليتمكن مبتكروه من تحقيقه على الإطلاق، وذلك باستخدام برنامج يحاكي المبادئ الأساسية للتطور الدارويني - التباين العشوائي والانتقاء الطبيعي - لكي يكتشف بنفسه كيف يتفوق في اللعبة. وعلى النقيض من برنامج "ديب بلو" الشهير، آلة الشطرنج التي تغلبت على جاري كاسباروف، بطل العالم السابق في الشطرنج، فإن هذا البرنامج التطوري لم يكن لديه القدرة على الوصول إلى الاستراتيجيات التي يستخدمها كبار الأساتذة من البشر، أو إلى قواعد البيانات التي تحتوي على الحركات التي يجب أن يقوم بها اللاعب في نهاية اللعبة، أو إلى الخبرات البشرية الأخرى المتعلقة بلعبة الداما. وباستخدام المعلومات الأولية للغاية المبرمجة في "دماغه"، نجح "بلوندي 24" (اسم المستخدم على شبكة الإنترنت للبرنامج) في خلق وسيلة خاصة به لتقييم الأنماط المعقدة المتغيرة للقطع التي تتكون منها لعبة الداما، وذلك من خلال تطوير شبكات عصبية اصطناعية - وهي عبارة عن نماذج رياضية تصف بشكل فضفاض كيف يعمل الدماغ. من المناسب أن يظهر Blondie24 في عام 2001، العام الذي نتذكر فيه تنبؤ آرثر سي كلارك بأننا سننجز يوماً ما في إنشاء آلة مفكرة. في هذه القصة المقنعة، يصف ديفيد فوجل، المؤلف والمشارك في إنشاء Blondie24، بتفاصيل مقنعة كيف يمكن للحوسبة التطورية أن تساعد في تقربنا من رؤية كلارك لـ HAL. على طول الطريق، يمنح القراء نظرة داخلية على التاريخ الرائع للذكاء الاصطناعي وي طرح أسئلة استفزازية حول مستقبله.

يجسد أحد أكثر مجالات أبحاث الذكاء الاصطناعي إثارة من خلال متابعة قصة تطور Blondie24 في المختبر من خلال تطورها إلى لاعبة شطرنج مصنفة كخبير، بناءً على نجاحها المذهل في المنافسة على الإنترنت.

يشرح أسس الحوسبة التطورية، ببساطة ووضوح.

يقدم مادة معقدة بأسلوب جذاب للقراء الذين ليس لديهم خلفية في علوم الكمبيوتر أو الذكاء الاصطناعي.

يفحص القضايا الأساسية المحيطة بإنشاء آلة مفكرة.

يناقش ما إذا كان اختبار تورينج الشهير يختبر الذكاء حقاً.

يتحدى الأساطير المترسخة حول نجاحات وتأثيرات بعض تجارب الذكاء الاصطناعي المعروفة.

يعرض تحركات بلوندي من خلال مخططات رقعة الشطرنج التي يمكن للقراء متابعتها بسهولة.

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