PR SM

AI Patent Classifier

AUTOMATIC PATENT DOCUMENT CLASSIFICATION

PR SM

WPS

About WIPS
DESIGN YOUR IP

WIPS is the key to unlock all IP matters

Global IP Specialist

WIPS is the first online patent information service provider in South Korea.
Since its founding in 1999, WIPS has continued to keep its number one market share position.

- Authorized government-designated prior art search, Trademark & Design search and
  PCT search institute by KIPO (Korean Intellectual Property Office).
- Awarded DB Quality Grand Prize by Ministry of science and technology Korea.
- Certified ISO28001, BS10012

AI Patent Classifier

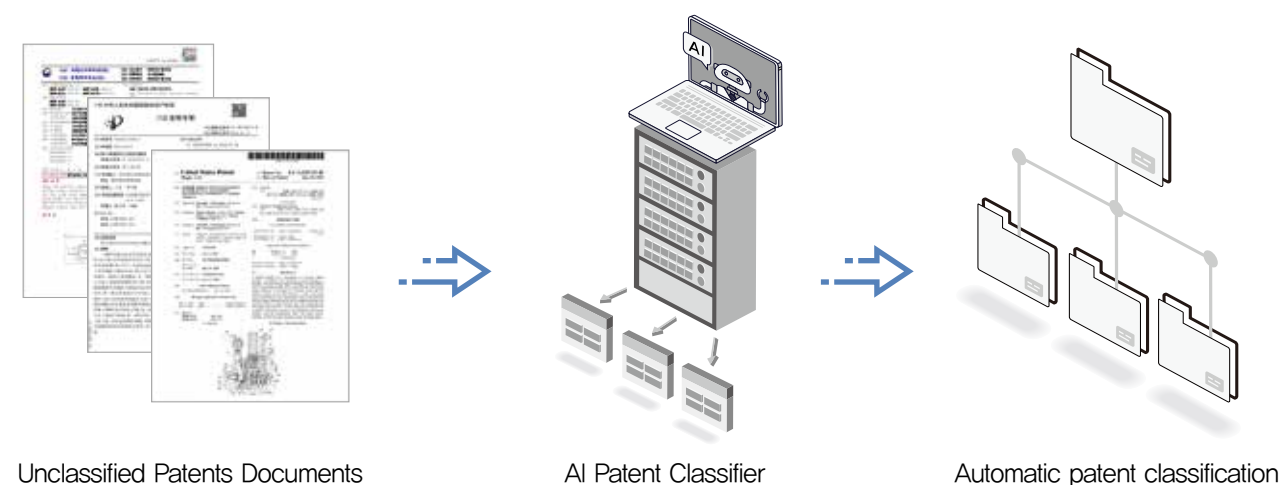## What the PRISM makes possible,

- Automatic classification of patent documents. Save cost and time.
- Solution for repetitive working of patent classification to update portfolio, technology trends, market trends, competitors etc.
- Find R&D direction and establish IP strategy through patent classification by classified technology.
- Identify competitor's main technology and whitespace technology
- Select core patents and prepare potential disputes
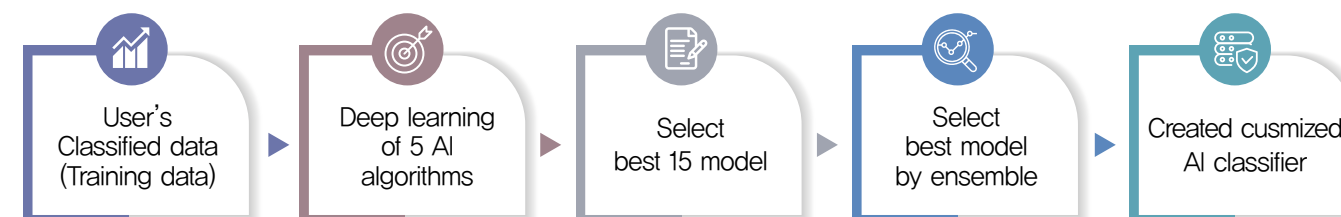
PRISM, AI Patent Classifier

My own classifier, which is trained with my data.
AI technology + WIPS R&D achieved innovation of patent classification.
The answer is Optimized and Customized AI Classifier using 5 different AI algorithm to make the best performance.

| Unclassified Patents Documents | AI Patent Classifier | Automatic patent classification |

Process of creating customized classifier by AI training

User's Classified data (Training data) ▶ Deep learning of 5 AI algorithms ▶ Select best 15 model ▶ Select best model by ensemble ▶ Created cusmized AI classifier

Outcome of classifying patent document

Created classifier,
Trained model list base on project.

Task ID	project	Task type	Registration date	start date	Completion Date	registration file	result file	
2524	SD_CN_TRAIN_2	inference	2022-01-03 09:52:56	2022-01-03 09:53:11	2022-01-03 10:04:29	CN_predict.xlsx	2524_predict.xlsx	✓
2523	SD_US_TRAIN_2	inference	2022-01-03 09:52:32	2022-01-03 09:53:11	2022-01-03 10:07:32	US_predict.xlsx	2523_predict.xlsx	✓

Application Number	Country Code	Patent/Utility	Top1	Prob1	Top2	Prob2	Top3	Prob3
10-2012-7020525	KR	P	A	0.3580999970	B	0.1238999996	C	0.1111599997
10-2014-7030878	KR	P	A	0.8209999980	B	0.0107199997	D	0.0196000000
10-2013-0071715	KR	P	C	0.3400999900	D	0.1164999980	A	0.0152499998
14/462083	US	P	D	0.7505999800	C	0.0409999000	A	0.0310999900

Categories and ratio of inferred result