



AI and Machine Learning FOSDEM 2024

William Jones



Copyright © 2024 Embecosm.
Freely available under a Creative Commons license.

An Introduction to Open Source AI	William Jones	09:00	09:30
From OpenLLM-France to OpenLLM-Europe: Paving the way to sovereign and open source AI	Michel-Marie Maudet	09:30	09:45
Building Open Source Language Models	Julie Hunter	09:45	10:00
LinTO Studio as Your Ultimate Open Source AI-driven Media Management Solution	Damien Laine	10:00	10:15
LangChain From 0 To 1: Unveiling the Power of LLM Programming	Stefano Fancello	10:15	10:45
ML Guided Optimizations in LLVM	Mircea Trofin	10:45	11:15
Practical Introduction to Safe Reinforcement Learning	Kryspin Varys	11:15	11:30
Open Discussion on AI and Machine Learning		11:30	12:00
Introducing 'Refiners' - A Micro-Framework for Seamless Integration of Adapters in Neural Networks	Benjamin Trom	12:00	12:30
Dynamic Explainability through Dynamic Causal Modeling	William Jones	12:30	12:45
AI for Developers: Treating Open Source AI as a Function	Martin Hickey	12:45	13:15
Using Haystack to Build Custom Functionality for LLM Applications	Tuana Çelik	13:15	13:45
Using code generated by AI: issues, misconceptions and solutions	Andrew Katz	13:45	14:15
Reducing the risks of open source AI models and optimizing upsides	Stefania Delprete, Jonathan Claybrough	14:15	15:00
Fortify AI against regulation, litigation and lobotomies	Edward C. Zimmermann	15:00	15:30
A Principled Component Analysis of Open Source Artificial Intelligence	Julia Ferraioli	15:30	16:00
Codes Bound by Ethics: The Rising Tide of Non-Free Software Licenses in AI ecosystems	Niharika Singhal	16:00	16:15
Moving a step closer to defining Open Source AI	Stefano Maffulli	16:15	16:45
Open Source AI at TechWorks, the UK trade body for Electronic Systems Engineering	Jeremy Bennett	16:45	17:00

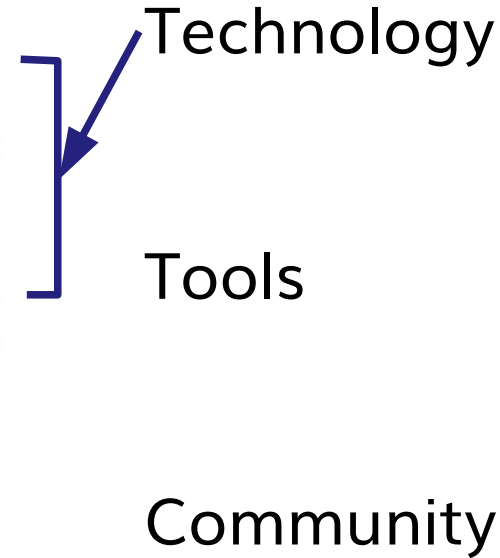
Beginner Friendly

Practice Focused

Open Source!

Technology

Event	Speakers	Start	End
Sunday			
An Introduction to Open Source AI	William Jones	09:00	09:30
From OpenLLM-France to OpenLLM-Europe: Paving the way to sovereign and open source AI	Michel-Marie Maudet	09:30	09:45
Building Open Source Language Models	Julie Hunter	09:45	10:00
LinTO Studio as Your Ultimate Open Source AI-driven Media Management Solution	Damien Laine	10:00	10:15
LangChain From 0 To 1: Unveiling the Power of LLM Programming	Stefano Fancello	10:15	10:45
ML Guided Optimizations in LLVM	Mircea Trofin	10:45	11:15
Practical Introduction to Safe Reinforcement Learning	Kryspin Varys	11:15	11:30
Open Discussion on AI and Machine Learning		11:30	12:00
Introducing 'Refiners' - A Micro-Framework for Seamless Integration of Adapters in Neural Networks	Benjamin Trom	12:00	12:30
Dynamic Explainability through Dynamic Causal Modeling	William Jones	12:30	12:45
AI for Developers: Treating Open Source AI as a Function	Martin Hickey	12:45	13:15
Using Haystack to Build Custom Functionality for LLM Applications	Tuana Çelik	13:15	13:45
Using code generated by AI: issues, misconceptions and solutions	Andrew Katz	13:45	14:15
Reducing the risks of open source AI models and optimizing upsides	Stefania Delprete, Jonathan Claybrough	14:15	15:00
Fortify AI against regulation, litigation and lobotomies	Edward C. Zimmermann	15:00	15:30
A Principled Component Analysis of Open Source Artificial Intelligence	Julia Ferraioli	15:30	16:00
Codes Bound by Ethics: The Rising Tide of Non-Free Software Licenses in AI ecosystems	Niharika Singhal	16:00	16:15
Moving a step closer to defining Open Source AI	Stefano Maffulli	16:15	16:45
Open Source AI at TechWorks, the UK trade body for Electronic Systems Engineering	Jeremy Bennett	16:45	17:00

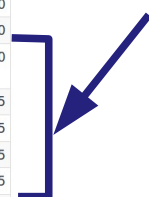


Event	Speakers	Start	End
Sunday			
An Introduction to Open Source AI	William Jones	09:00	09:30
From OpenLLM-France to OpenLLM-Europe: Paving the way to sovereign and open source AI	Michel-Marie Maudet	09:30	09:45
Building Open Source Language Models	Julie Hunter	09:45	10:00
LinTO Studio as Your Ultimate Open Source AI-driven Media Management Solution	Damien Laine	10:00	10:15
LangChain From 0 To 1: Unveiling the Power of LLM Programming	Stefano Fancello	10:15	10:45
ML Guided Optimizations in LLVM	Mircea Trofin	10:45	11:15
Practical Introduction to Safe Reinforcement Learning	Kryspin Varys	11:15	11:30
Open Discussion on AI and Machine Learning		11:30	12:00
Introducing 'Refiners' - A Micro-Framework for Seamless Integration of Adapters in Neural Networks	Benjamin Trom	12:00	12:30
Dynamic Explainability through Dynamic Causal Modeling	William Jones	12:30	12:45
AI for Developers: Treating Open Source AI as a Function	Martin Hickey	12:45	13:15
Using Haystack to Build Custom Functionality for LLM Applications	Tuana Çelik	13:15	13:45
Using code generated by AI: issues, misconceptions and solutions	Andrew Katz	13:45	14:15
Reducing the risks of open source AI models and optimizing upsides	Stefania Delprete, Jonathan Claybrough	14:15	15:00
Fortify AI against regulation, litigation and lobotomies	Edward C. Zimmermann	15:00	15:30
A Principled Component Analysis of Open Source Artificial Intelligence	Julia Ferraioli	15:30	16:00
Codes Bound by Ethics: The Rising Tide of Non-Free Software Licenses in AI ecosystems	Niharika Singhal	16:00	16:15
Moving a step closer to defining Open Source AI	Stefano Maffulli	16:15	16:45
Open Source AI at TechWorks, the UK trade body for Electronic Systems Engineering	Jeremy Bennett	16:45	17:00

Technology

Tools

Community



Event	Speakers	Start	End
Sunday			
An Introduction to Open Source AI	William Jones	09:00	09:30
From OpenLLM-France to OpenLLM-Europe: Paving the way to sovereign and open source AI	Michel-Marie Maudet	09:30	09:45
Building Open Source Language Models	Julie Hunter	09:45	10:00
LinTO Studio as Your Ultimate Open Source AI-driven Media Management Solution	Damien Laine	10:00	10:15
LangChain From 0 To 1: Unveiling the Power of LLM Programming	Stefano Fancello	10:15	10:45
ML Guided Optimizations in LLVM	Mircea Trofin	10:45	11:15
Practical Introduction to Safe Reinforcement Learning	Kryspin Varys	11:15	11:30
Open Discussion on AI and Machine Learning		11:30	12:00
Introducing 'Refiners' - A Micro-Framework for Seamless Integration of Adapters in Neural Networks	Benjamin Trom	12:00	12:30
Dynamic Explainability through Dynamic Causal Modeling	William Jones	12:30	12:45
AI for Developers: Treating Open Source AI as a Function	Martin Hickey	12:45	13:15
Using Haystack to Build Custom Functionality for LLM Applications	Tuana Çelik	13:15	13:45
Using code generated by AI: issues, misconceptions and solutions	Andrew Katz	13:45	14:15
Reducing the risks of open source AI models and optimizing upsides	Stefania Delprete, Jonathan Claybrough	14:15	15:00
Fortify AI against regulation, litigation and lobotomies	Edward C. Zimmermann	15:00	15:30
A Principled Component Analysis of Open Source Artificial Intelligence	Julia Ferraioli	15:30	16:00
Codes Bound by Ethics: The Rising Tide of Non-Free Software Licenses in AI ecosystems	Niharika Singhal	16:00	16:15
Moving a step closer to defining Open Source AI	Stefano Maffulli	16:15	16:45
Open Source AI at TechWorks, the UK trade body for Electronic Systems Engineering	Jeremy Bennett	16:45	17:00

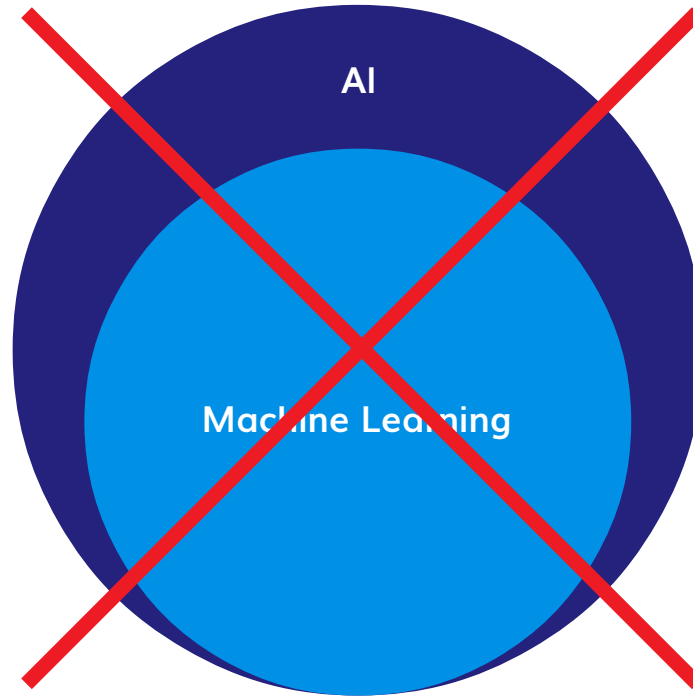
Technology

Tools

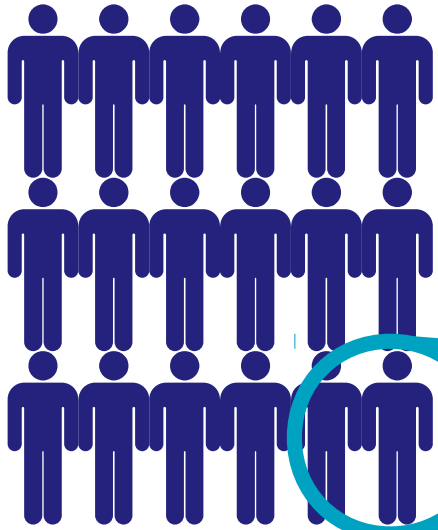
Community



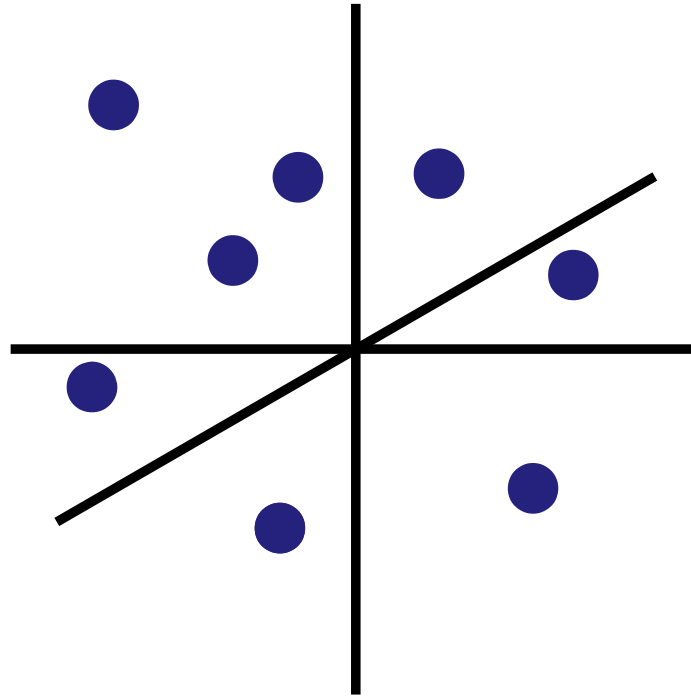
What are AI and Machine Learning?







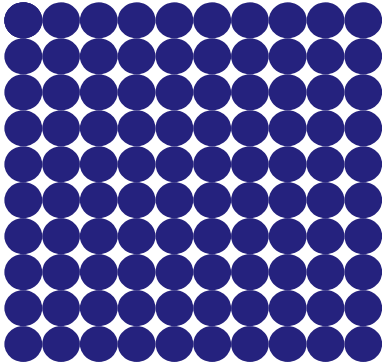
Combinatorial Explosion



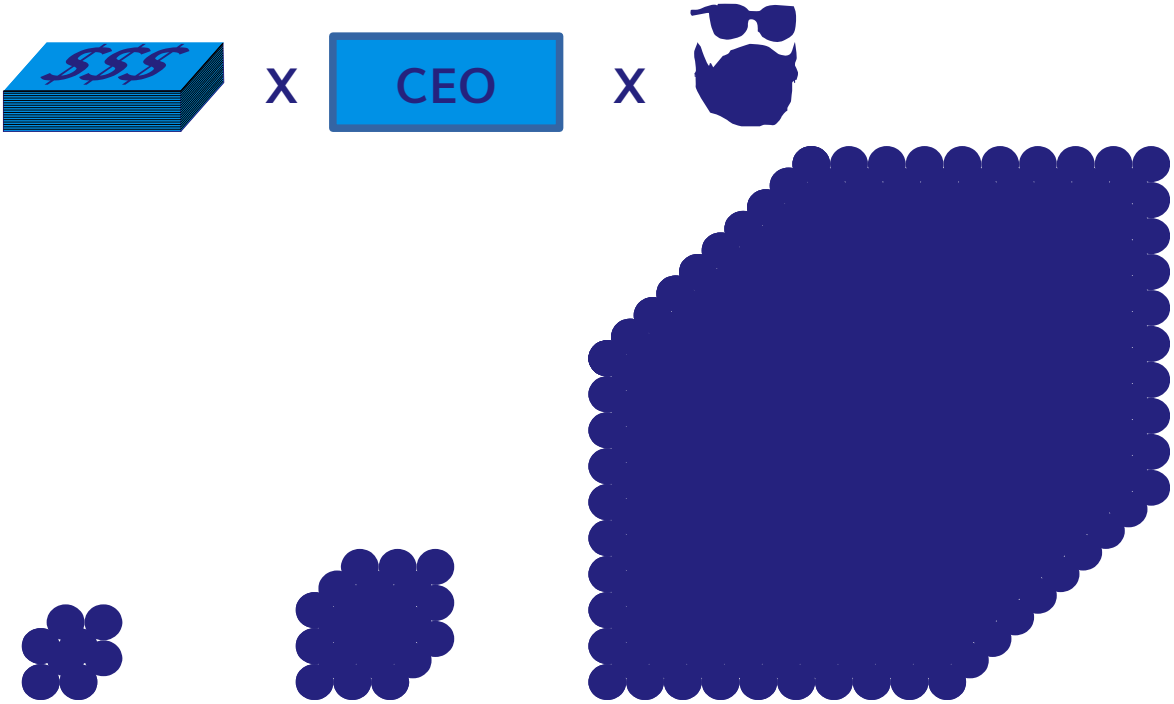
Combinatorial Explosion



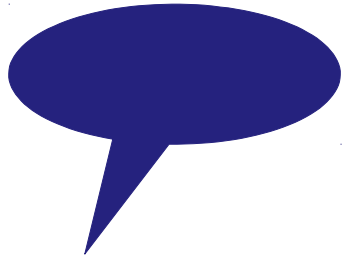
Combinatorial Explosion



Combinatorial Explosion



Applications



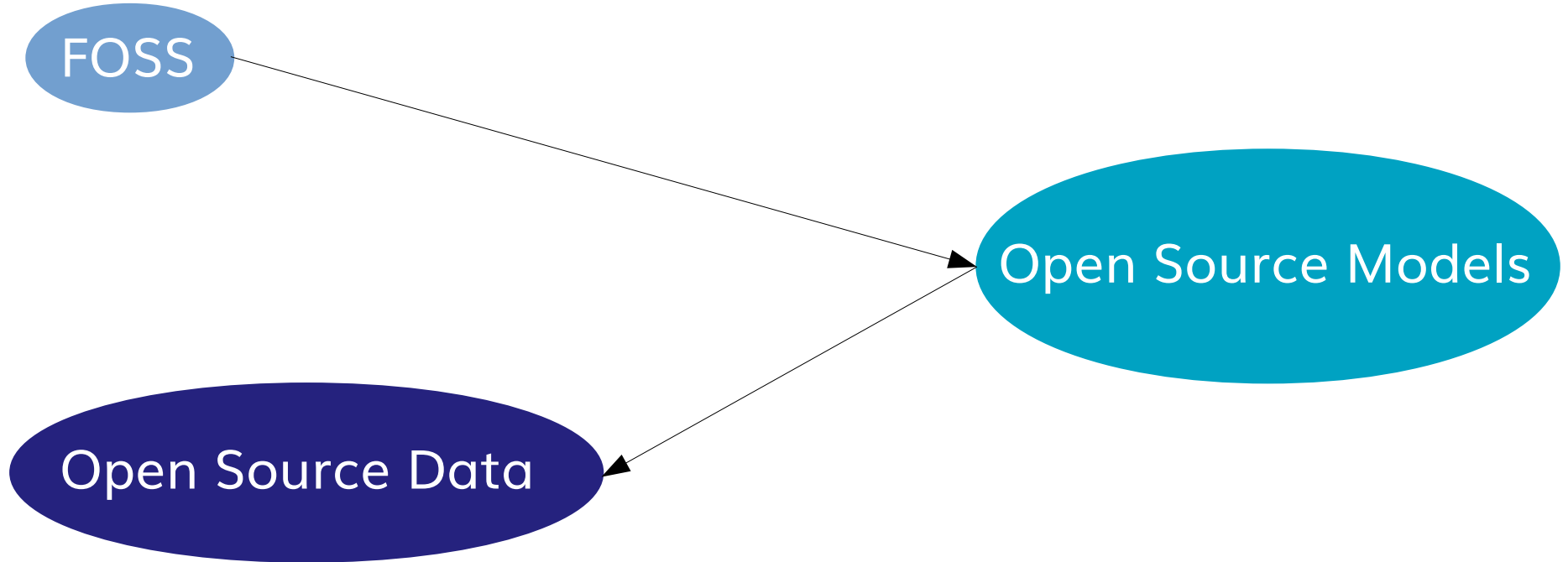
Manage data

Automation

Manage data

Automation

AI and Open Source

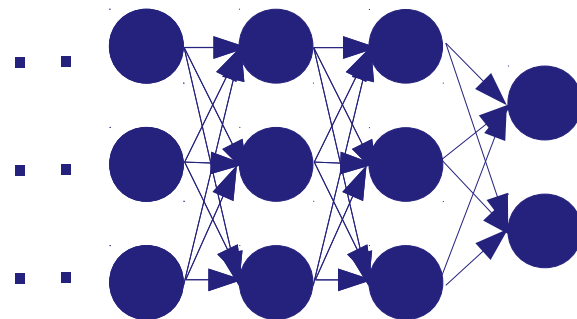
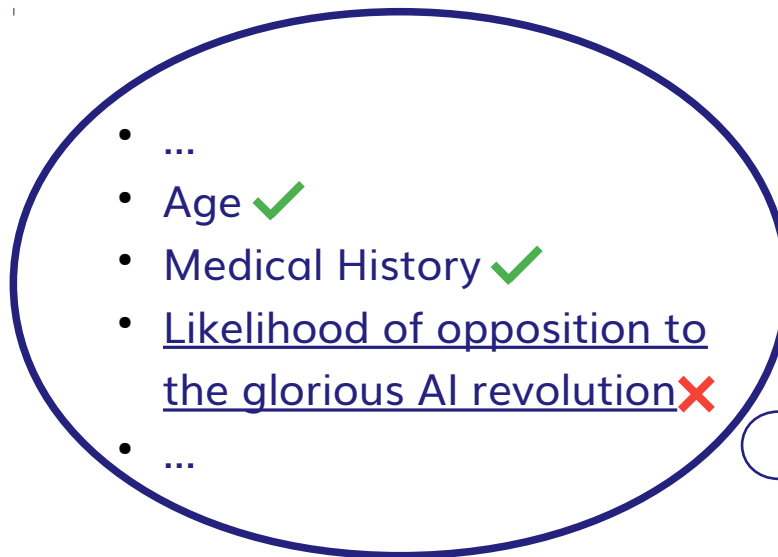


Challenges

Explainability

Bias

Privacy



Accept

Deny



Any questions?



Copyright © 2024 Embecosm.
Freely available under a Creative Commons license.