

# Small Language Models for Your Team



Llama 3

Meta  
8 billion parameters



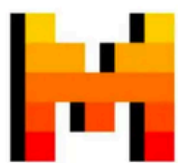
Phi-3

Microsoft  
3.8 billion - 7 billion parameters



Gemma

Google  
2 billion - 7 billion parameters



Mixtral 8x7B

Mistral AI  
7 billion parameters



OpenELM

Apple  
0.27 billion - 3 billion parameters



# What are Small Language Models

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- SLMs are a subset of LLMs. The term “small” in small language models refers to the reduced number of parameters compared to LLMs. They have a compact architecture that requires less computational power while training and inferencing.
- This accelerates their training process, making them a perfect choice for domain-specific tasks with limited resources. On the other hand, LLMs are trained on huge parameters and are computationally intensive.
- SLMs like Gemma, Phi3 Mini, and Llama 3.2 have significantly fewer parameters (ranging from 1 billion to 3.8 billion) highlighting their compact nature. This reduces their computational power, making their deployment easy and accessible, even in edge devices like mobile phones.



# SLMs for Your Team

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- Within an organization, there are several teams, and if each team has an SLM dedicated to their field, you can imagine how productive and efficient an organization can be without breaking the bank. Leveraging small language models for team collaboration, performance, and task management is quite effective in optimizing tasks.
- Now, let me list a few possible tasks that a team can undertake with the help of SLMs.
  - Automate Routine tasks
  - Enhance Communication and Collaboration
  - Meeting Recaps and Task Assignments
  - Personalized Learning and Development



# Automate Routine Tasks

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- Everyday repetitive tasks include drafting daily reports, feedback emails, and summarizing meeting notes.

These tasks are quite monotonous and require a large bandwidth of team members. What if you could get these tasks done automatically? SLMs can make this possible. They automate routine tasks such as drafting emails, daily reports, or feedback, freeing up time for team members to focus on more complex and strategic work.

## Use Case

- In the healthcare industry, patient data entry is quite a tedious task. SLMs can assist in maintaining patient records such as EHRs (electronic health records) from dictated notes, forms, or clinical worksheets, reducing the workload of hospital administrative team members.



# Enhance Communication and Collaboration

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- A team comprises members from diverse backgrounds and cultures. If you are unable to understand the language or accent of any team member, it would be challenging for you to coordinate with them. SLMs can provide real-time translation services, enabling seamless communication between team members and fostering a multicultural team environment.
- Additionally, SLM-powered chatbots can give precise and accurate answers to field-specific questions. This leads to improved customer satisfaction, reduced resolution times, and a streamlined support process.

