Hello rafael,

** Today’s Assignment**

Complete Unit 4: “Domain-Specific LLMs”, which is:

* [Optional] Listen to the summary [podcast episode](https://notifications.googleapis.com/email/redirect?t=AFG8qyXousn_wQdhlqF3pNrZPBEK11I28yHrMPCdgaoBxeWtliBU1l4aj9LENak2xAixPdJc9ZQ6yIea-vpp-Hv4IfMcHS6iuTwm2Si5Hbxu5-PJln0FJMUJklQDtsSC9nnT9o3zUCQftTxjNvAMHohpOyU2z8VI3Q-MNWFThJtmW-jEXOuhtfYf70QrzoDxZ6W8BWVEUbFQmeZCpXtIAN5HS8JOJAFdWGgIVV59_VU8uw501pxGHwBPum0AKY1Mq3n2oBh0rc59&r=eJzLKCkpKLbS16_MLy0p1UtK1U8yTDSJ8g-0iEjxBACSrAmV&s=ALHZ2r6soGnESNPsgharROKaAZJ1) for this unit (created by [NotebookLM](https://notifications.googleapis.com/email/redirect?t=AFG8qyUwzHTz5iUA2VD0Y4ZcMwOnKk_EgGTrGA2VxQKZq7gxUt9vxtXYfrK670OdlN9UOQ2AZfRugBrGyxU1dkZBT-qTrmVCNY_E41V5qbFpV3emjZ7-Wn-to5xQsbV4R3tTcpGcHtWk4j8dRqDTWFopO0lBlHxJn7EmbwMpswuDlSJ_g86YD1YMe6nd5t6kzapNC92K2byQUdGMVsixL9J1r54zJz5hdfNq3ptbpr138QxZM0Ap0R7l-v6OdiMp8wMFEpEEz7t4&r=eJzLKCkpKLbS18_LL0lNys_PzsnVS8_PT89J1QcAhrkJ4A&s=ALHZ2r6haVGiaPJLhqEvOpL84wHY" \t "_blank)).
* Read the [“Solving Domain-Specific Problems Using LLMs” whitepaper](https://notifications.googleapis.com/email/redirect?t=AFG8qyVpuD-e531qpPwq8msUWWueWGnV4VrGx0s7jNkAs24cgmZbLRftUzQ-cKG38bnsKIxgytvHEVWy_doQ8AszuCuLNpCdvDWxoeudlWsc6sOJTNFoz-VL3ECqPW1_dfosWzkG6PiKr3PjJ3-7AxF54BM8V1nzvHp_9M8Os1RnMD_BDagi2P4CNsA6EGo5tUZw2sKKooo_AlCrQNCT4IghbXr4OKmRtPDPI8RptfzplR9bsLqh85kDoECEJGDHiAMmTrwRwlF0&r=eJwVyUESgCAIAMAXofd-Y0rKBMKIxfeb9rpjb_Mj54hId-mdMVWVHIM2WjFc4MovzQ5NpdB0cMNKF1WwpSejODz-P7P4B5r-HiI&s=ALHZ2r5qNeMF5_2OJWizg2MSMb8t).
* Complete these code labs on Kaggle:
  1. [Use](https://notifications.googleapis.com/email/redirect?t=AFG8qyXPeTE2g1w-dbUddPBCjd6yIqVed4Gbkbw4NmpAT1wb1hsRksBBxu9LHUgv_5E40Muc5txl-MBjcK-voALKkvb9JB8tMRiQ9uQH2y1JkYAYFn2-u5E0dC0_fCOjm2vcKBWnZyr6SW7mP5I7hzJNDgVIFiBH_p3r1asld7-L40jFtpDd3FE7ARwQX4PgZKMUMgFq6O8t6qeQ9sE3mMtA7XwQNyrp1axAqoTwqDmK8UcfP_GMAXAijLh0_PjOebk9etsTMt1Z&r=eJwNyjEOwCAIAMAXIUun_oYIQWOVBmxIf9_efG3vO07EzCyDVC8p1SZWY8FJPno0cUGmFw5Qsz9ACHltoG7P4r70A2UuGXA&s=ALHZ2r5aAsKPI8SjCnlOBJxjunPl) Google Search data in generation
  2. [Tune](https://notifications.googleapis.com/email/redirect?t=AFG8qyWkgdJv6VaYNmpRWjjD_mx5YWbsGYWQDCNhG7hIEtd9uI1Y6HJsYC5B8xBotkvTSLCcEpu9aGDtFKFea0DWMSSrIi1GvrEntrsTctNJ27xvEz3iT10uoSscJew1faZ8VwmOzibmchrYBxNWptKa1bALPi9V1JSUbpJZEm4Ljf_d1InoeqMCbygEgsn3tfyVn3V0cF2Tq48VGvkPbvRSSgX9RE_EKtcd1Kyn2b3mkGKn2o7gs7naKNJYHzWfeoudOg2MpsYD&r=eJwNyjEOwCAIAMAXIUun_oYoVaOAUYzp79ubr7iPdSOec0KjnDuHaILREqPQbHUVnoyJXrjgqcrgW6tmIIh7uQnIX_sHr-8aTg&s=ALHZ2r7CQOF38oek4Rx4SNo_fP6K) a Gemini model for a custom task

** What You’ll Learn**

In today’s reading, you’ll delve into the creation and application of specialized LLMs like SecLM and MedLM/Med-PaLM, with insights from the researchers who built them.

In the code labs you will learn how to add real world data to a model beyond its knowledge cut-off by grounding with Google Search.  You will also learn how to fine-tune a custom Gemini model using your own labeled data to solve custom tasks.

** Reminders and Announcements**

* Here is the [recording from Day 3’s  livestream](https://notifications.googleapis.com/email/redirect?t=AFG8qyVZ4FdG2Ll7UUBxT5zD3ewXePQ3Srv0V23TE_xpcb321L5uroKgmE1LF7OWNFuOLOAfROf-8XpTiuZMtOtH5AVlAPTOeoXtTu6NJrKaYpw-0VUH1LHb3lsKMcoSgTLw_XOKwZ36_cQ_YsOdOKLc11ZM94SsNeCaQpumfmrlh1T_6nmON4sXoOWJRk1iQXBRKnFRuRC1QS04biXhvAqO-Apqw5mh3_Mv-0_DdgLZPp4rFCjPT2mdNtyvlTlZ2m-YGBgUSjyR&r=eJzLKCkpKLbS1y8vL9erzC8tKU1K1UvOz9UvTyxJzrAvs_UIDC3xDc8PcXQxUcvJLC6xDfApdEsM8Uw3ya0s1U0yDMipyCwJTIk0CI30TKos1jVKLVbLzEtJrbA1AQDpRCAz&s=ALHZ2r7RMJO5yB7ncNFPbcBala76).
* The next livestream with Paige Bailey is tomorrow at 2pm PST/ 5pm EST/ 10pm UTC. [Click here to join](https://notifications.googleapis.com/email/redirect?t=AFG8qyU35gEu9CGBSODCpEPpHokTl5ypZJxx3s95-jTFiON9TCp9D0JD5bph5pW1_bpTN8kH4vNkzkHHGFPxpPrqOdFVmskHF3aw9umM0HULBsYE08yu_6soKqxADjjJYcmouYTRAN-nttJVSG3RU26jVbo1Om3Y4QIo2f5NGGBoE7RS0ZJa4SsY7Klj7rjt5d99xmTO4tr2Fu1H_STxcx4_Anu15tv3EJm0MmucpI4L9WrOWSDk9IptY8F9aimJFbSmTfbkwe7V&r=eJzLKCkpKLbS1y8vL9erzC8tKU1K1UvOz9UvTyxJzrAvs81PKSv18fUKDw0OVcvJLC6xDfApdEsM8Uw3ya0s1U0yDMipyCwJTIk0CI30TKos1jVKLVbLzEtJrbA1AQACCiCm&s=ALHZ2r4eycTZYCJEYaH1uz956WBq)! Livestream guests: Scott Coull, Antonio Gulli, Anant Nawalgaria, Christopher Semturs, and Umesh Shankar.
* Find a [complete list of scheduled livestreams and past recordings here](https://notifications.googleapis.com/email/redirect?t=AFG8qyVWeKPpyQgGrUchvc169D7pSKKgK3xDWeqGAOSTMjBxl0s7TnZEyQ2YXZBisbrRB16ssCZMW4z-3soOOYMPeDmfHtVkpEVYtBPyUNphgGo_tMiYZG5yuSSL8M78i9kAvY7N0WzUz1d1BaSnFLqi_OCsDbz62B0-o_1MCMmownfHKYhKLVWj3PILtuGltTIEt5LlveWGR0grmAKplefddv9WElLt3-QTwYp7wFrms-YCncYCUtV5okBLb8OGRfe_0DaaVGhP&r=eJzLKCkpKLbS1y8vL9erzC8tKU1K1UvOz9UvyEmszMksLrEHEbYBPoVuiSGe6Sa5laW6SYYBORWZJYEpkQahkZ5JlcW6RqnFAN7cGoQ&s=ALHZ2r5NVuKdFlrdqH_ynD1x09ML).
* Be sure to ask all your questions about the podcast, readings, and code lab on [Discord](https://notifications.googleapis.com/email/redirect?t=AFG8qyXYm1Aa377ckqGGpPEqmIOVCnsAI784jEuKi6GvUuykO5G3z8xKgnPv1Aw5mCVrKUZ3gCqX2R9btYKl60ZRMB8dKMROdOUFhOOPYddtOt2BPXnnAuJrtxXQE0n0un07b_ZB-DtrNKFMcjZiAP8THyma-Yjk-bV5Atxth6EhXvs2gSjmBFrZnRbAzkxNJYH92-w9mHdhd8ArbO5oBLzdc5Rp7q6qM-zl1GmCaQuSORSzK4-ttQOMx1vqROSPn190PahMHigB&r=eJzLKCkpKLbS10_JLE7OL0rRS0_XT_crcraMKC0BAIraCcM&s=ALHZ2r4N1GtRcrHE8hOV4ubQw0qC).

Happy learning and see you tomorrow,

The Kaggle Team