

Systematic Review of Recent (01 January 2020 to 15 February 2021) Chatbot Engines from Python Package Index (PyPI) Supplementary Materials

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S1. List of Outdated Packages (n = 158)

1. afs 5 (Jun 13, 2019)
2. AgentML 0.3.1 (Nov 3, 2015)
3. aichat 0.0.5 (May 14, 2018)
4. aimlbotkernel 1.0.4 (Apr 20, 2017)
5. aioChatbase 1.0.0 (Aug 2, 2018)
6. aiohipchat 0.0.2 (Sep 9, 2016)
7. aitik 0.0.2 (Jun 13, 2018)
8. aliyun-python-sdk-chatbot 1.2.1 (Jan 25, 2019)
9. asyncbots 0.1.8 (Aug 18, 2018)
10. babbot 1.0.0 (Jan 7, 2018)
11. babylex 0.1 (Jan 26, 2017)
12. bda-chatbot 1.0.0 (May 31, 2019)
13. bernard 0.2.0 (Apr 26, 2018)
14. Bert-Chatbot 0.0.0 (Jan 15, 2019)
15. bo 0.1-alpha (Mar 19, 2013)
16. botanalytics 0.2.8 (Aug 27, 2019)
17. bothub 0.1.30 (Nov 22, 2018)
18. bothub-cli 0.1.20 (Nov 22, 2018)
19. botium 1.0.1 (Mar 10, 2018)
20. botpie 0.0.1 (Feb 18, 2019)
21. BotpySE 0.7.11 (Sep 4, 2019)
22. botshot 0.1.4 (Jun 10, 2019)
23. cabot-core 0.1.1 (Apr 8, 2019)
24. cabot-discoball 0.1.0 (Apr 13, 2019)
25. calysto_chatbot 0.9.1 (May 7, 2018)
26. cape-client 0.2.0 (Mar 23, 2018)
27. chatbot 1.5.2b (May 20, 2013)
28. chatbot_script 1.20.0 (Dec 19, 2016)
29. chatbotentities 0.0.4 (Aug 23, 2017)
30. chatboteora 0.2 (Aug 28, 2019)
31. chatbottokenizer 0.0.1 (Mar 10, 2019)
32. chatbot-utils 1.0.1 (Apr 7, 2019)
33. chatette 1.6.2 (Dec 19, 2019)

34. chatflow 0.0.1a0 (Jan 27, 2018)
35. chaton 0.1.3.2 (Aug 31, 2019)
36. chatterbot-corpus 1.2.0 (Oct 6, 2018)
37. chatterbot-voice 0.1.5 (Oct 8, 2017)
38. chatterbot-weather 0.1.1 (Dec 10, 2016)
39. chatterbox.py 0.2.5 (Jul 27, 2018)
40. Chatty 0.2 (May 31, 2018)
41. ChocoPY 0.1.6 (Nov 19, 2019)
42. cl3ver 0.2 (Apr 1, 2017)
43. common-aikingyuyan 0.0.1 (Sep 16, 2019)
44. converse 0.1a5 (Jul 31, 2018)
45. cross-words 0.0.2 (Jun 5, 2018)
46. dialogbot 0.0.4 (Aug 6, 2019)
47. discord-plays-nationstates 0.1.1 (Feb 12, 2018)
48. discordrouter 0.0.5 (Jun 10, 2019)
49. django-assignment-desk 0.1.10 (Dec 14, 2018)
50. django-bot 0.2.2 (Jun 4, 2017)
51. django-budget 0.9.10 (Oct 8, 2018)
52. django-golem 0.11 (May 26, 2017)
53. django-publishable 0.1.13 (Jan 28, 2019)
54. dlbot 0.0.4 (Apr 21, 2016)
55. dragonfire 1.0.0 (Jul 30, 2018)
56. dsrt 0.0.1 (Apr 4, 2018)
57. eddie 0.9.5 (May 8, 2017)
58. efb-wechat-basic-slave 0.0.2 (Dec 29, 2018)
59. emily 1.0.8 (Apr 30, 2017)
60. emoter 0.5.0 (Feb 21, 2017)
61. err 3.2.0 (Nov 14, 2015)
62. fanolabsaccobot 0.1.1 (May 29, 2019)
63. fbmessenger 6.0.0 (Apr 24, 2019)
64. fbmq 2.5.0 (Jul 26, 2018)
65. fbmqasync 2.1.0 (Apr 10, 2018)
66. femputadora 0.1 (Mar 11, 2018)
67. fetchable 0.1.5 (Sep 10, 2019)
68. Flask-Wizard 0.5.28 (Apr 6, 2018)
69. flowdock-api-wrapper 1 (Mar 30, 2019)
70. funcmap 1.0.3 (Jan 15, 2018)
71. golm 0.9.1b0 (Apr 16, 2018)
72. google-hangouts-chat-bot 0.2.0 (Nov 28, 2019)
73. hadroid 0.1.19 (Sep 11, 2018)
74. hiworker 0.0.2 (Aug 26, 2019)
75. horse 0.2.17 (Jun 4, 2015)
76. horse-forecastio 0.1.0 (Jun 3, 2015)
77. horse-google 0.1.3 (Jun 3, 2015)
78. horse-lastfm 0.1.3 (Jun 3, 2015)
79. horse-nonsense 0.1.4 (Jun 4, 2015)
80. intent-classifier 0.2.1 (Mar 29, 2019)
81. ircbot 0.1dev (Feb 25, 2013)
82. janis 0.0.3 (Nov 26, 2017)
83. kakaobot.py 1.1 (Aug 27, 2018)

84. kidx-nlu 0.0.1a7 (May 10, 2019)
85. koslab.messengerbot 1.0b5 (Aug 9, 2016)
86. landa-chatterbot-corpus 1.2.0 (Dec 23, 2018)
87. le 1.0.16 (Mar 25, 2018)
88. lechat 1.0.7 (Mar 26, 2018)
89. lecluvindex 1.1.0b0 (Apr 16, 2018)
90. lehello 1.0.1a1 (Apr 16, 2018)
91. lemaster 0.1.5 (Mar 26, 2018)
92. lime-python 1.0.1 (Apr 16, 2019)
93. loquitor 1.0.6 (Mar 9, 2017)
94. lorem-bot 0.0.1 (Jun 14, 2018)
95. martian-chatbot 0.4.2 (Feb 11, 2019)
96. mayevsky-chatbot 1.1.3 (Jul 27, 2019)
97. mindsay-sdk 1.0.0 (Oct 31, 2019)
98. minette-symphony 0.2 (Oct 22, 2019)
99. mitoo 1.9.9 (Jul 4, 2018)
100. Morrison 0.9.51 (Nov 7, 2017)
101. My-First-BOT 0.4 (Mar 30, 2018)
102. nameko-extras 0.1.1 (Sep 1, 2017)
103. navi 0.1.0a19 (Jun 7, 2017)
104. neuralcoref 4 (Apr 8, 2019)
105. nlp-xiaojiang 0.0.1 (Jul 5, 2019)
106. npdl 0.4.0.1 (Jun 18, 2017)
107. nuqui 0.1.6 (Feb 14, 2018)
108. otto-bot 0.0.3 (May 29, 2019)
109. parse-accept-language 0.1.2 (Sep 4, 2017)
110. pbnj 0.3.3 (Jan 12, 2019)
111. phgeograpy 1.0.0 (Mar 12, 2018)
112. pipeline 0.1.0 (Jun 13, 2018)
113. pybotkit 0.1 (Nov 15, 2016)
114. pychatbotlib 1.0.1 (Sep 21, 2018)
115. pyElizaChatbotClient 0.1.6 (Feb 22, 2016)
116. PyMessenger 1.0.1 (Oct 15, 2017)
117. PySimpleGUI27 2.4.1 (Sep 6, 2019)
118. python_chatbot 0.0.10 (Apr 15, 2019)
119. python-messenger 0.1.2 (May 6, 2017)
120. python-rivescript 1.04 (May 21, 2013)
121. qwackchat 1.0.0.0 (Jul 6, 2019)
122. rasa_language 0.0.1 (Dec 14, 2019)
123. rasa-core 0.14.5 (Jun 5, 2019)
124. rasa-nlu 0.15.1 (Jun 5, 2019)
125. ravestate 0.7.0.post1 (Oct 21, 2019)
126. rcs-chatbot 0.0.6 (Jun 14, 2019)
127. recho 1.0.2 (Feb 18, 2018)
128. ringcentral-bot-framework 0.5.2 (May 28, 2019)
129. ringcentral-bot-framework-extension-botinfo 0.4.0 (Mar 27, 2019)
130. ringcentral-bot-framework-extension-world-time 0.2.0 (Mar 27, 2019)
131. ringcentral-chatbot-factory 0.1.2 (May 28, 2019)
132. ringcentral-chatbot-server 0.1.1 (May 28, 2019)
133. sen-chatbot 1.0.2 (Dec 13, 2019)

134. sirbot.plugins 0.2.0 (Jul 26, 2017)
135. sirbot.slack 0.2.0 (Jul 26, 2017)
136. sir-bot-a-lot 0.2.0 (Jul 26, 2017)
137. skore-chatbot-sdk 0.0.7 (Jul 29, 2019)
138. skype-chatbot 1.0.4 (Aug 3, 2018)
139. slackbot-eliza 0.1 (May 15, 2016)
140. slacktools 0.0.5 (Sep 11, 2018)
141. taskbot 0.0.1 (Jul 7, 2018)
142. teamchat 0.1.0 (Nov 7, 2018)
143. teitoku 0.0.3 (Dec 10, 2018)
144. tensorflow_nlp 0.0.1 (Oct 10, 2017)
145. thief-snapshot 0.2.0 (Jul 11, 2017)
146. twitch-listener 1.2.1 (Jul 2, 2019)
147. twitchobserver 0.8.0 (Jul 6, 2018)
148. uranuspy 0.3.0 (May 22, 2019)
149. uttut 1.4.10 (Jun 20, 2019)
150. viablimp 0.2.5 (Jun 30, 2018)
151. walq 0.0.1 (Nov 10, 2018)
152. Watson 0.1.05 (Jan 16, 2013)
153. webwhatsapi 2.0.5 (May 28, 2018)
154. whalesong 0.9.0 (Feb 27, 2019)
155. will 2.1.3 (Jun 13, 2018)
156. wordhop 0.0.6 (Feb 11, 2017)
157. xmchat 1.0.0 (Sep 3, 2019)
158. zoldyck 1.1 (Aug 15, 2018)

S2. List of SDK/API Packages (n = 72)

1. abxy 2.3.3 (Jul 13, 2020)
2. aiographql-client 1.0.2 (Sep 9, 2020)
3. all-the-chatbots 0.2.1 (Feb 6, 2020)
4. asgiref 3.3.1 (Nov 9, 2020)
5. aws-cdk.aws-chatbot 1.89.0 (Feb 10, 2021)
6. aws-cdk.aws-logs 1.89.0 (Feb 10, 2021)
7. ayushbot 0.0.2.5 (Nov 20, 2020)
8. beekeeper-chatbot-sdk 0.3.2 (Sep 24, 2020)
9. bitbitbot 0.0.10 (Feb 4, 2021)
10. blip-session 0.0.3 (Jul 8, 2020)
11. Bruhapi 0.0.2 (Dec 21, 2020)
12. btnexus-node-python 6.3.233 (Oct 13, 2020)
13. chatbot-help 1.0.0 (Jan 9, 2020)
14. chatbotweb 0.0.6 (May 19, 2020)
15. clause 1.1.5 (Oct 3, 2020)
16. cleverbotfree 1.2.7 (Jan 17, 2021)
17. cleverbot-free 1.6.1 (Aug 7, 2020)
18. coco-sdk 0.1.5 (Feb 10, 2021)
19. django-chatbot 0.0.2.2 (Dec 6, 2020)
20. doclib 1.8.4 (Nov 25, 2020)
21. efb-fb-messenger-slave 2.0.0b21 (Jan 14, 2020)
22. efb-link-preview-middleware 0.1.0 (Dec 31, 2020)

23. efb-mp-instantview-middleware 0.3.1 (Dec 31, 2020)
24. efb-msg-blocker-middleware 1.1.0 (Dec 31, 2020)
25. efb-qq-slave 2.0.0b3 (Sep 9, 2020)
26. efb-search-msg-middleware 0.1.0 (Dec 31, 2020)
27. efb-telegram-master 2.2.2 (Dec 4, 2020)
28. efb-voice-recog-middleware 0.2.1 (Dec 31, 2020)
29. efb-wechat-slave 2.0.4 (Dec 23, 2020)
30. fbchatbot 0.1.0 (Jun 10, 2020)
31. feishu-python-sdk 0.1.2 (Sep 27, 2020)
32. fptai-chatbot-sdk 1.0.1 (Apr 6, 2020)
33. google-cloud-dialogflow-cx 0.2.0 (Dec 8, 2020)
34. gurunudi 1.4.1 (Aug 5, 2020)
35. instachatbot 0.4 (May 19, 2020)
36. kiri 0.4.0 (Jan 24, 2021)
37. Legobot 1.3.3 (Oct 20, 2020)
38. lettria 5.1.0 (Jan 6, 2021)
39. live-agent 0.11.0 (Jun 20, 2020)
40. lmikoto-efb-qq-slave 2.3.0 (Feb 1, 2020)
41. loducode-maytapi 0.1.2 (Jul 5, 2020)
42. machaao 0.3.0 (Feb 11, 2021)
43. morph-ai 1.0.8 (Feb 25, 2020)
44. open-chatbot-py-client 0.1.0 (Dec 30, 2020)
45. openwa 1.3.11 (Dec 14, 2020)
46. PyCrowlingo 0.6.0 (Jan 7, 2021)
47. pylogflow 0.2.0 (Mar 27, 2020)
48. pyngrok 5.0.1 (Dec 29, 2020)
49. pyTelegramBotAPI 3.7.6 (Jan 18, 2021)
50. quinnat 1.0.1 (Feb 7, 2021)
51. rasa 2.2.10 (Feb 9, 2021)
52. rasa-audiocodes 0.2.0 (Oct 14, 2020)
53. rasa-sdk 2.2.0 (Dec 15, 2020)
54. Reddit-ChatBot-Python 1.2.0 (Jan 28, 2021)
55. robo-bot 0.1.2 (Nov 4, 2020)
56. sendbee-api 1.6.0 (Dec 12, 2020)
57. simpletransformers 0.60.5 (Feb 4, 2021)
58. slackclient 2.9.3 (Oct 22, 2020)
59. slack-sdk 3.3.1 (Feb 9, 2021)
60. slack-time 0.1.5 (Oct 1, 2020)
61. steamscordbot 0.2.2 (Oct 17, 2020)
62. Tamako.py 0.5 (Feb 8, 2021)
63. testcanarybot 0.906 (Dec 22, 2020)
64. tinode-grpc 0.16.7 (Jul 18, 2020)
65. tock-py 0.0.1.dev10 (Nov 14, 2020)
66. travitia-talk 0.0.1 (Jan 2, 2021)
67. troposphere 2.6.3 (Oct 12, 2020)
68. twithon 0.0.3.5 (May 10, 2020)
69. wechaty 0.6.14 (Jan 15, 2021)
70. wechaty-plugin-contrib 0.0.5 (Dec 22, 2020)
71. wplay 8.0.5 (Sep 20, 2020)
72. zoombot 0.1.2 (Aug 22, 2020)

S3. List of Support Module Packages (n = 47)

1. ASAPPpy 0.1b11 (Dec 28, 2020)
2. avajana 0.4.1 (Sep 18, 2020)
3. bavard 0.0.52 (Feb 6, 2021)
4. bf-nlp-pack 2.1 (44242)
5. bfpack 3 (Jul 1, 2020)
6. blip-flowanalysis 0.4.1 (Feb 11, 2021)
7. chatbot-common-aiqingyuyan 0.0.3 (May 13, 2020)
8. chatbot-ner 0.0.7 (Jul 31, 2020)
9. chatbot-nlu 1.0.3 (Jan 19, 2020)
10. cloudcomponents.cdk-developer-tools-notifications 1.24.0 (Feb 10, 2021)
11. convo-n2 2.0.0 (Oct 14, 2020)
12. convo-nl2 2.0.0 (Oct 14, 2020)
13. convo-nlu 4.0.0 (Oct 20, 2020)
14. convo-NLU2 2.0.0 (Oct 14, 2020)
15. convoxxx 1.10.12 (Sep 20, 2020)
16. eventhandler 1.2.1 (Sep 18, 2020)
17. grakn-kglib 0.2.2 (Aug 19, 2020)
18. hatool-compiler 0.0.1 (Dec 10, 2020)
19. holmes-extractor 2.2.1 (May 4, 2020)
20. jina 1.0.0 (Feb 10, 2021)
21. kayatoolbox 0.4.2 (Sep 12, 2020)
22. Korpora 0.2.0 (Jan 12, 2021)
23. langauge 0.0.2 (Dec 23, 2020)
24. LrnXPAnaToolbox 0.4.1 (Sep 4, 2020)
25. programy 4.3 (Apr 4, 2020)
26. ptoaster 1.0.0 (Jan 19, 2020)
27. pytorch-ignite 0.4.3 (Feb 8, 2021)
28. rasa-addons 0.9.29.3 (May 29, 2020)
29. rasafou 1.7.49 (Mar 3, 2020)
30. rasa-hydra 2.6.4 (Feb 4, 2021)
31. rasam 0.3.0 (Apr 27, 2020)
32. rasa-nlu-contrib 0.16.0 (Jan 21, 2021)
33. rasa-storyteller 0.2.1 (Jul 6, 2020)
34. rita-dsl 0.7.0 (Feb 3, 2021)
35. rivescript 1.15.0 (Apr 10, 2020)
36. roboai-cli 1.0.0 (Jan 28, 2021)
37. russian-paraphrasers 0.0.3 (Jan 29, 2021)
38. snips-nlu 0.20.2 (Jan 15, 2020)
39. sockoutlet 0.0.2 (Dec 15, 2020)
40. sugaroid-chatterbot-corpus 1.2.0 (Apr 2, 2020)
41. take-ai-evaluation 0.1.0 (Dec 12, 2020)
42. take-resolution 0.13.0 (Sep 17, 2020)
43. take-satisfaction 0.4.1 (Sep 24, 2020)
44. thoughts 0.1.6 (Dec 27, 2020)
45. transformers 4.3.2 (Feb 10, 2021)
46. vosk 0.3.18 (Feb 7, 2021)
47. wneuralcoref 4.0.2.3.2 (Oct 6, 2020)

S4. List of Chatbot Packages (n = 27)

1. babblebox 0.2.1 (Sep 26, 2020)
2. chatbot-builder 0.5.0 (Jul 25, 2020)
3. chatbotpackage 0.14 (Sep 23, 2020)
4. chatbot-py 2.74 (Aug 5, 2020)
5. chatopera 2.0.0 (Jul 22, 2020)
6. chiron-bot 0.9.1 (Feb 6, 2021)
7. chiron-bot-adehnert 0.9.1 (Feb 6, 2021)
8. conversation-bot 1.0.0 (Jul 3, 2020)
9. convo5 0.1 (Sep 21, 2020)
10. convo6 0.1 (Sep 21, 2020)
11. convo7 0.1 (Sep 23, 2020)
12. Covid-NLP 0.0.1 (Mar 10, 2020)
13. DingtalkChatbot 1.5.2 (Dec 12, 2020)
14. DingtalkChatRobot 1.5.1 (Oct 27, 2020)
15. errbot 6.1.7 (Dec 19, 2020)
16. FridayChatBot 0.1 (Dec 30, 2020)
17. karmabot 1.3 (Dec 22, 2020)
18. let-me-answer-for-you 0.1.2 (Jul 3, 2020)
19. limbo 8.1.0 (Jun 2, 2020)
20. nicobot 0.1.10 (Jan 28, 2021)
21. nlpia_bot 0.2.14 (Mar 19, 2020)
22. pychatbots 1.0.7 (Feb 3, 2021)
23. quelfilm-chatbot-app 1.0.0 (Mar 13, 2020)
24. say-something-moon 1.0.0 (Dec 29, 2020)
25. spanish-chatbot 0.1.0 (Jan 6, 2020)
26. task-bot 0.0.1 (Jul 10, 2020)
27. Tensorflow-ChatBots 0.0.12 (Mar 24, 2020)

S5. List of Chatbot Engine Packages (n = 21)

1. agt 0.6.1 (Jan 25, 2021)
2. Bani 0.6.3 (Dec 27, 2020)
3. chatbotAI 0.3.0.0 (Nov 5, 2020)
4. chatbot-creator 0.0.5 (Jan 31, 2021)
5. chatbotmaker 0.0.13 (Sep 3, 2020)
6. ChatterBot 1.0.8 (Aug 23, 2020)
7. cobe 3.0.1 (Nov 25, 2020)
8. coco-puppet 0.4.3 (Aug 12, 2020)
9. commandintegrator 1.3.0 (Oct 13, 2020)
10. dazu 0.1.0 (Feb 25, 2020)
11. deeppavlov 0.14.0 (Dec 25, 2020)
12. deeppavlov-agent 2.2.0 (Jul 8, 2020)
13. emora-stdm 1.95 (Jul 2, 2020)
14. flipgenic 0.5.0 (May 18, 2020)
15. iokobot 0.6 (Feb 3, 2021)
16. jigbot 0.1.1 (Aug 19, 2020)
17. minette 0.4.3 (Sep 7, 2020)
18. msgflow 0.6.0 (Jan 11, 2021)

19. opsdroid 0.20.2 (Feb 6, 2021)
20. qary 0.6.22 (Feb 9, 2021)
21. TChatBot 0.1.0 (Jun 22, 2020)

S6. List of Other Packages (n = 11)

1. AutoChatbot 0.1.1 (Oct 30, 2020)
2. chathub-base 2.0.2 (Oct 7, 2020)
3. dialobot 0 (Feb 6, 2021)
4. kochat 1.0.3 (Jul 4, 2020)
5. lyrics-extractor 3.0.1 (Aug 4, 2020)
6. py-chatbot-payload 0.0.2 (Oct 13, 2020)
7. pymongo-model 2.0.2 (Jul 17, 2020)
8. redant 0.0.1 (Sep 20, 2020)
9. sugaroid-chatterBot 2.0.0 (Apr 2, 2020)
10. text-game-maker 0.7.5 (Apr 6, 2020)
11. trashguy 4.1.0.20210114 (Jan 14, 2021)