Test Report

L’applicazione DifferentIAtor è stata sottoposta a tests effettuati dagli stessi sviluppatori, al fine di controllare il suo funzionamento, nonché il pieno rispetto dei requisiti funzionali e non funzionali pensati ad inizio progetto.

La web app infatti, una volta sviluppata, è stata cariata su Google Cloud Run e qui effettuato il deployment. Dopo ciò, sono stati effettuati i tests. In questo modo abbiamo potuto controllare il funzionamento di DifferentIAtor alle stesse condizioni in cui si troverà l’utente finale durante il suo utilizzo.

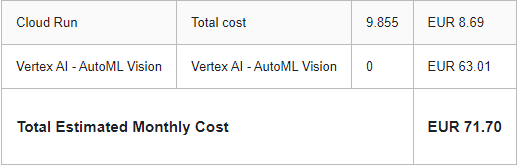
Elenchiamo di seguito i risultati riguardanti i test per i singoli requisiti funzionali e non funzionali:

* Identificazione corretta di almeno 85 di 100 input inseriti dagli utenti.
  + Durante la fase di test, abbiamo effettuato 100 prove di caricamento di diverse immagini di materiali diversi (Plastica, Carta, Vetro). DifferentIAtor è riuscito a distinguere la giusta tipologia di rifiuto nel 100% delle prove.
* Creazione di un sistema di riconoscimento alternativo che associa il codice del rifiuto al contenitore di destinazione.
  + Durante i test abbiamo potuto confermare il corretto funzionamento del sistema di riconoscimento del rifiuto, che ha associato correttamente il codice rifiuto al proprio contenitore per lo smaltimento nel 100% dei casi.
* Il risultato deve essere fornito entro 5 secondi dal momento in cui l’utente fornisce il dato in input.
  + In fase di testing, sono state effettuate 50 prove di caricamento di immagini in modo cronometrando il tempo di risposta. Il tempo medio è stato di 3,7 secondi con tempi massimi nelle prime chiamate a Vertex AI a causa di un fenomeno di *Cold Start*
* Il dataset IA deve raggiungere un grado di precisione dell’80%.
  + ![Immagine che contiene tavolo

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automaticamente](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4TTmRXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAEAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAEUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDIyOjAxOjI5IDE3OjQ5OjM0AAAGkAMAAgAAABQAABEckAQAAgAAABQAABEwkpEAAgAAAAMwMAAAkpIAAgAAAAMwMAAAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkQAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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7g9K1VuI5Iy6yKyf3gwIH40xEH2y4/58Jf8AvtP/AIqj7Zcf8+Ev/faf/FVOLiLyw4lQoejbhg/jSLcRSbdsiNuzjBBzjrj1oAg+2XGf+PGX/vtP/iqPtlxn/jxl/wC+0/8Aiqla6iUAmRACcAlhgn0ridf+MGkaD4m1rQDY6tqOq6Tp1vqk1vp1oZ3eGaV4kCKpyzBkYkY4Azml28wOx+1XH/PjL/32n/xVH2q4/wCfGb/vtP8A4quc+I3xM0f4X+GRrutG4+yG5tLQR26B5d9xOkEfykjjfIuT2GfpXV+dH5vl718zGdmRn8qduoiD7Zcf8+Ev/faf/FUfbLj/AJ8Jf++0/wDiquUUDKf2y4/58Jf++0/+Ko+2XH/PhL/32n/xVXKKAKf2y4/58Jf++0/+Ko+2XH/PhL/32n/xVRa5rVp4e0m51K+lMVrbrudgCx9AABySSQABySRXOR/FDSks9Tmv7XUNJm09I5JLS9gAmZZG2xFFVmDFmwoAOckAgGgDp/tVx/z4y/8Afaf/ABVL9suP+fCX/vtP/iqzPDHi208UfbEjgurG9s5BFc2V9GI5oWKhlJAJBDKQQwJB5Gcggb9AFP7Zcf8APhL/AN9p/wDFUfbLj/nwl/77T/4qrlFAFP7Zcf8APhL/AN9p/wDFUfbLj/nwl/77T/4qrlFAFP7Zcf8APhL/AN9p/wDFUfbLj/nwl/77T/4qrlFAFP7Zcf8APhL/AN9p/wDFUfbLj/nwl/77T/4qrlFAFP7Zcf8APhL/AN9p/wDFUfbLj/nwl/77T/4qrlFAFP7Zcf8APhL/AN9p/wDFUfbLj/nwl/77T/4qrlFAFP7Zcf8APhL/AN9p/wDFVPCzSIGaNomPVWIJH5EipaKAGMK+dfj9oepal8aPBNzaafdXVtF4e1+KSaGF2RHe3jCKWAwCxBAB5Pavouq814sDbWjlY9cxxsw/MCsqkPaR5b2Ki+V3Pg3wD+zjojat8Lra88FTLY6h8M7ptbilt5ljnvYza+SLgHgyrvl2q3zDnA44X4cfCq5+IWgfD9PHPhq+1Y2vwmlgddUtpSVulmQIrBgP3oVQQG54yPWvu7+0k/543H/fh/8ACj+0k/543H/fhv8ACtO6/rr/AJmdv6+7/I+GfDfgPVPAMHw71jRfCGtXer6l8N9UGuw2rzW91qN0sNuYIppzlkmLFwrH5lydo4xXKeAvD/i2fTfiZZ+F9IudIg1HwLayR2ek6NfaYjXSTss0e+4kYzXPlllMw2Fsg7e9foh/aSf88bj/AL8P/hVLWbfTvEOk3emalYSXun3cbQT281szJIhGCpGOhFOTvey/rX/MaWiV/wCtP8j84vH2g6Fq2q/Eew+G/hXVNP07/hC9AA0wabPA7TDWg0jLCy7s7VJLBcEox5wTXo3jT4WXEZ8eeLbTw1et4sg+Keny6fqCW0rTpal7NJXiwP8AVlTIGZRggHJ44+rfhv8ACvwV8Jlv/wDhFtAm06W/dXuriT7RczzbRhFaWVmcqoJCrnCg8AV2/wDaSf8APG4/78N/hWiklbT+rpl83S39WseJ/s96Lq2n6f8AGJWtbixurrxpq09m1xEyeYrLHskXcOVJHDDg4r59+E/hGztPGPwqFv4Q1uy8aWMOrJ4t1O606dFmu2tnG6SdhtlLNkqwJ+UgAjpX3d/aUY/5Y3H/AH4f/Cl/tKP/AJ43H/fh/wDCsHG8eXyS+4V+vmfK3h3wx4p/4d2+GNF02w1C319PDtjHPYxq8V35atGZ4gpwwcxB128HJxXPeJfDWhah8NdXHwx8FeKNI8IjXNHm8Q6eltPax6hYpIDdpa27MJCQmPN2qu8AgFjmvsn+0o/+eNx/34f/AApf7ST/AJ43H/fh/wDCtJO8nLuRFcsVHsfDD/D0eJIdRttC8L6lZ/C2+8eaHJpWkTWc1uERIyLyVYWAaKFm29QoyGPQ8mq+Adc+Gej+N/E/g/w1fLJ8P/Hx1LQ9FtLdwLjT7i0igu4rdSPmUiZ3AXjcnrX3N/aUf/PG4/78P/hS/wBpR/8APG4/78P/AIVOt2/66f5D7f13/wAz4E+L3w51Hw34A8I+E5vCkl7ef8IjfXbaxcaZeapH/ak7mWSGGC3kjEV0XYsLh2O0YCg8irWsaF4s8QeBNXvL/S9WvNUvfhd4aimkltZWlluluWaZGyuTICSWX7wzkivvH+0k/wCeNx/34b/Cj+0k/wCeNx/34b/Cl38/+D/n+A3sk+n/AAP8j8/vjD4Lmm8QePY9e8J63q/jy68aaLeaHqsNhPcRR6Os9iQqSqCiKhWfcpx83zEd61tat9auP2itJ1Oz8MXGi6jB45VLqb+yL64vpbFkdPNfUDIIVtnGMQLGyrx8wOa+6v7Sj/55XH/fhv8ACl/tKPvDcf8Afhv8KqOij5fjt/kKWt/P/g/5lwdBS1T/ALTj/wCeNz/34f8Awo/tNP8Anjc/9+H/AMKBlyiqf9pp/wA8bn/vw/8AhR/aaf8APG5/78P/AIUAVfE2qW+h6He6hd28t1b20RleGGEyu+3kBUAJJzjArzHSbay+I2ia5eX19Naa3dCC7Pl2cu3TlgkEsKLvRfNKsoLY+8SQABivV/7STP8Aqbj/AL8P/hR/aac/ubj/AL8P/hS63GcB8KdM1WbxB4n8RancSXP9oi1t4JXtDaLIsKvl0hLMyqWkIG4ljtJzggD0yqf9pp/zxuf+/D/4Uf2mn/PG5/78P/hVElyiqf8Aaaf88bn/AL8P/hR/aaf88bn/AL8P/hSGXKKp/wBpp/zxuf8Avw/+FH9pp/zxuf8Avw/+FAFyiqf9pp/zxuf+/D/4Uf2mn/PG5/78P/hQBcoqn/aaf88bn/vw/wDhR/aaf88bn/vw/wDhQBcoqn/aaf8APG5/78P/AIUf2mn/ADxuf+/D/wCFAFyiqf8Aaaf88bn/AL8P/hR/aaf88bn/AL8P/hQBcoqn/aaf88bn/vw/+FTwyiaMMAyg9nUqfyNADz1rE1Dxho2l+JtL8PXd8kOs6pHNJZ2hDFpliAMhBAwNoYdSOvFbdfNX7QlxLa/HrwBPBI8M0fh3xE6SRsVZWFvGQwI5BB5BrKpP2ceYqK5tD6W70cV8DeA/Der6tqnw0sLnx/42ktfE3w2udb1MHxDcbpLuA2vlyI+7dER5752Fd2BuzzmTwDrXiL4xaD4BbXfF/iS3eb4UyarcNperTWbT3ccyKs7mNhl+Mk98kHIOK1/r8/8AIi/9fd/mfelHrXwn4a8ba74Fh8BeILrxX4r1U+JPhzqesavGty17IZ7eKB45bWB/3ayje4AACscbs9a5nwP8YvF40v4mW/hvxBeXqL4ItNYtceIn165hnaZkmmLNEgim8s5aGPciso2ntQ9G1/XX/ISel/66f5n3z4s8XaR4E0G51rXb1NO0u2KCa5kVmVd7qi5ABPLMo6d62dw4Nfm/8RPiAdDm+INt4B+JXiHXNEtPB+h3UV02vT3LQXUmsKkzLIX3KzJhW5yAxXgcV23jPWPEOlzeOvGUHi3xEt/pHxQsNKs7MarMLJLWVrNJIjBu2srLK/ysCATkAHObUW7ef+aX6mnK/wCvS59oeH/Fmk+K21IaTeLeHTbyTT7vYrDyp48b4zkDJGRyMjnrTda8ZaN4d1XS9M1G/S1vtT837HCwYmbyk8yTGAQNq8849q8m/Z/8Q61qmn/GB5by51K5svGWq29kl1K0nlIixmOJdxO1ATwowBk4FfO3wz1yx1rx38HNSl8Z6trvji4h1ibXtPvtReb7BdfZW3IsLHFvtbKhV2ggZwetYylaN/JP7wS1t5n27pPj7w7rXgu28W22sWo8NXFqLyPVJ38mDySMiQs+Nq47tityGZLiNZI2EkbAMrqcgg8ggjtXyBex3nxC/wCCZdpc6xf6pqWpT+Do7ya7+2TfaJ5BHuJdw2589wxIbvmvP/i9428RW2uaDovh3xINP8Jp4Ltbrw7q914yn0yOS9LODMZFhmN4ybY/3Ttgg9DnI0l7snHz/wA/8iI+9FT/AK6f5n6CcVn2Wsafqd5fWtnf213c2Mghu4YJld7dyoYLIASVYqysAcHBB6Gvivx1448SaH8SNK1DW/GE2p3SxaLDLo+ha1cWF1ZTyKomeCzeLydQhkZizMxVlGQMEV6h+zboOleHPjv8eLSG+vm1NtYtJza3uoTzt5L2kTCQLIxGC5ZQwHAUKDhQAJavy/4Am9j6WooopFBRRRQAUUUUAFFFFAFW/wBQttLsp7u7nS2toFMks0rBVVQMkknoKw7H4h+HtQ0+/vo9TSO209fMumuUeAxKRkMyuqnBHQ4we2au+K59JtfD99ca75I0iCPzrlpxlFVTnJ+hAryDX9VtfFXg3xP4iMlrLc6hHawRWdvOsklhaiZdk0wUn5lLmVlHAC7cnBNTtcZ694d8WaV4rgnl0u7FwIJPLmRkaOSJiAwDIwDLkEEZAyCCOK2q8t+FMxk8YeMN2or4idxZudchVVjl+R1EGF+Xcm3cSvUSjPIr1KrJCiiikMKKKKACiiigAooooAKKKKACiiigAooooAKz7trBZkNz9n81VIUyhSwVuCAT2OOfWtCigDJjm0iNo2U2iGOMxIQFBVDjKj0XgcDjgUkMmjW+wRiyjCx+SAiqMJ/dGOi+3SteigDJWbSEaIqbVTChjjICjYpxlV9AcDgelZt9ovh690u8sY3h05LqFrd5tOkFtMit12umCpzzkHrXUUUnruM8j+GPwS8IfDK61a/TVr/xLq+ppHDcaj4gukuJfIjZmjhVVRUVFZmbhckksxJ5r0V5NHkV1f7GyvIJWBCkM4xhj6kYHPXgVq7qdVXEZsN5plr5nlS28XmMXfZtG5j1Y46k+tV410OK4a4SOxSdmLNKqKGZsYJJxknHGa2qKQGXHdaVDai2je1S3VdghXaFA9MdMe1QSRaDNFbwvDYvFbkGGNo0Kx46bRjA/CtuigDImk0a5uormUWUtxF/q5nVS6f7pPI/Cnx3elx3L3KyWq3DqFaUbQ7KOgJ6kCtSigCn/a9l/wA/cX/fQo/tey/5+4v++hVyigCn/a9l/wA/cX/fQo/tey/5+4v++hVyigCn/a9l/wA/cX/fQo/tey/5+4v++hVyigCn/a9l/wA/cX/fQo/tey/5+4v++hVyigDPm1DTriFopZ4JI2GGRyGDD0IPWq9v/Ylnv+zrZQbxhvLVV3D0OByK2KKAM23vdMtI/LgltoUHOyPaoz9BU39r2X/P3F/30KuUUAU/7Xsv+fuL/voUf2vZf8/cX/fQq5RQBT/tey/5+4v++hR/a9l/z9xf99CrlFAFP+17L/n7i/76FH9r2X/P3F/30KuUUAU/7Xsv+fuL/voUf2vZf8/cX/fQq5RQBT/tey/5+4v++hR/a9l/z9xf99CrlFAFP+17L/n7i/76FH9r2X/P3F/30KuUUAU/7Xsv+fuL/voVYhmS4jDxOroejKcipKKAP//Z)Dopo la fine del training, il test del Dataset ha restituito un grado di precisione del 89,4%, risultando migliore dei risultati attesi
* L’interfaccia deve essere molto semplice e intuitiva.
  + Durante le visite degli utenti, l’app si è dimostrata di immediato utilizzo.
* Portabilità su ogni dispositivo
  + In fase di tests, l’accesso dall’app è stato provato da Sistemi Operativi di diverso tipo (Windows, iOS, Android) e da diversi browsers (Opera, Google Chrome, Safari) risultando sempre operativo in tutte le sue funzionalità

Business Report

In seguito all’analisi di mercato, in cui è stato deciso di dare al progetto un’impronta green, creando un’applicazione che sensibilizzasse la Raccolta Differenziata, attraverso l’utilizzo dell’intelligenza artificiale, è stato chiaro che la Web App avrebbe sostenuto i costi di gestione, solamente nel caso dell’acquisto da parte di un acquirente.

D’altra parte, pur essendo stata fatta, in fase di sviluppo, la scelta di utilizzare framework gratuiti come Vaadin, l’utilizzo di alcuni servizi della Google Cloud Platform tra cui l’ Intelligenza Artificiale Vertex AI e Cloud Run, quest’ultimo utilizzato per deployare l’applicazione online, ha comportato dei costi.

In particolare, il costo mensile previsto per tenere l’applicazione attiva, ipotizzando una media di 100 requests al giorno è di 71,7€, che si divide tra 8,69€ per Cloud Run e 63,01€ per Vertex AI.