

Name: Rajas Dholam

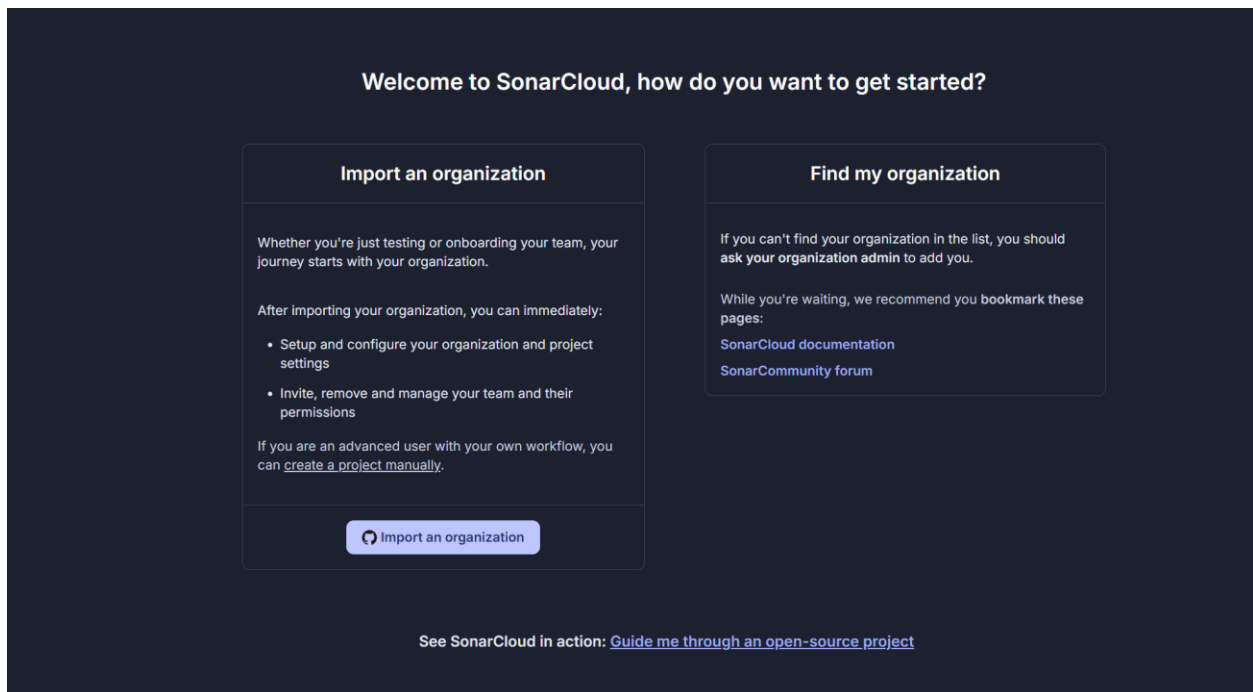
Roll No:A013

Q1. Integrate a basic Python project into SonarCloud and analyze its code quality. Configure the project to show issues like code smells, bugs, and security vulnerabilities.

Step 1) I Go to sonar cloud

Sign up using your GitHub

Authorize SonarCloud to access your repositories.





Install SonarCloud

Install on your personal account Rajas Dholam



for these repositories:

☒ **All repositories**

This applies to all current *and* future repositories owned by the resource owner.
Also includes public repositories (read-only).

☐ **Only select repositories**

Select at least one repository.
Also includes public repositories (read-only).

with these permissions:

- ✓ Read access to code and metadata
- ✓ Read and write access to checks, commit statuses, pull requests, and security events

User permissions

SonarCloud can also request users' permission to the following resources. These permissions will be requested and authorized on an individual-user basis.

- ✓ Read access to email addresses

Install

[Cancel](#)

Next: you'll be directed to the GitHub App's site to complete setup.

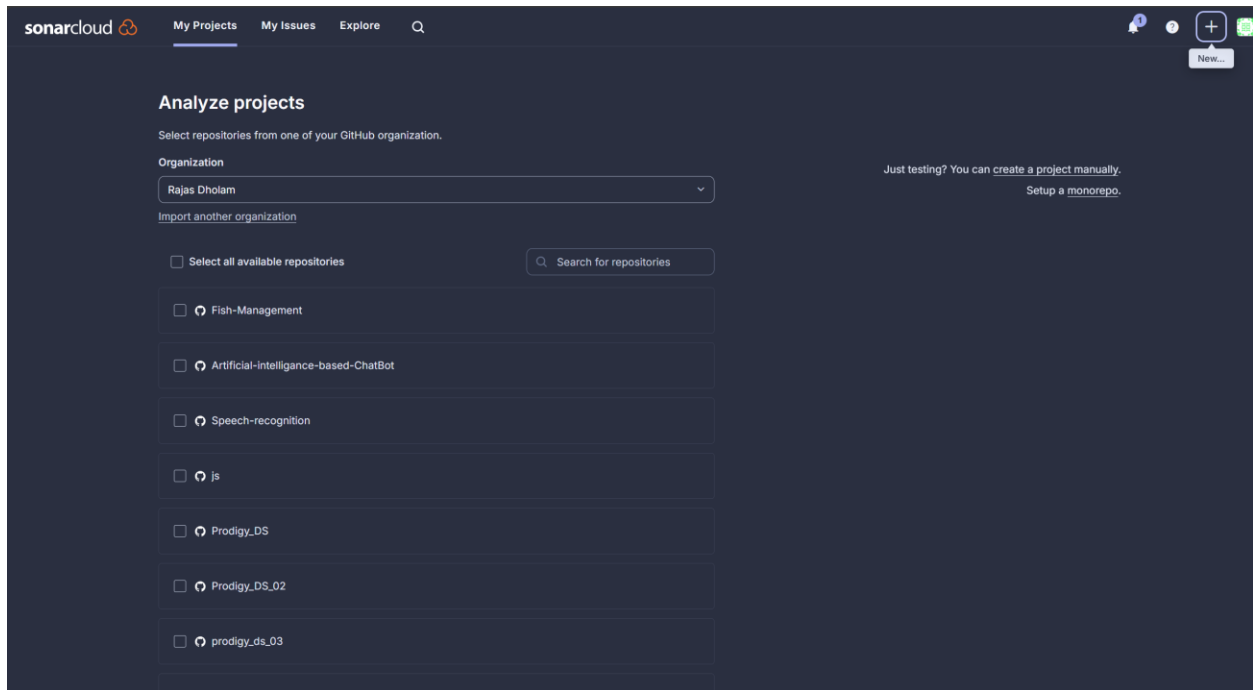
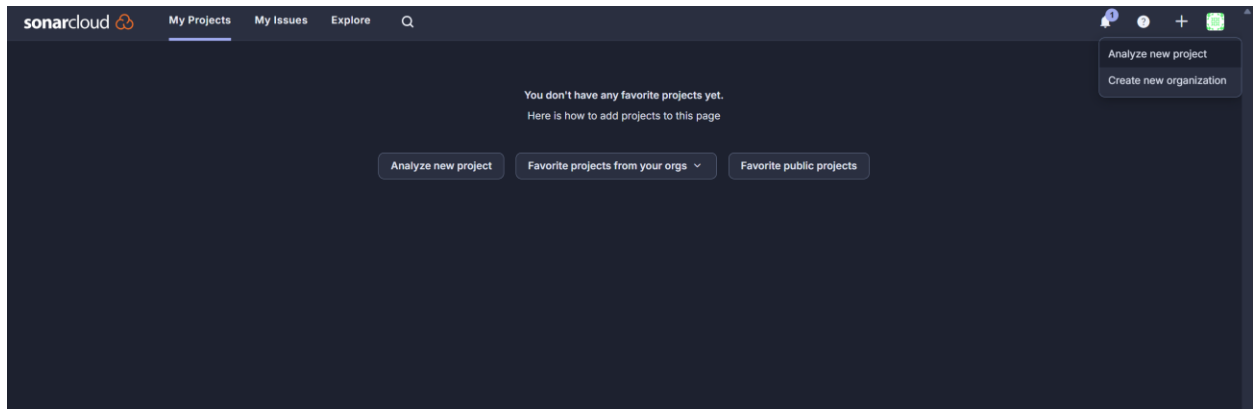
Step 2) Create a Project on SonarCloud

After logging into SonarCloud, go to the **Projects** section.

Click on **Analyze new project**.

Choose the repository where your Python project is hosted.

Select the repository and click **Set Up** to analyze the project.



sonarcloud

[My Projects](#)[My Issues](#)[Explore](#)

Analyze projects

Select repositories from one of your GitHub organization.

Organization

Rajas Dholam

Import another organization

☐ Select all available repositories

Search for repositories

☐ Fish-Management

☐ Artificial-intelligence-based-ChatBot

☒ Speech-recognition

☐ Js

☐ Prodigy_DS

☐ Prodigy_DS_02

☐ prodigy_ds_03

☐ Prodigy_ds_04

1 repository selected

1 repository will be created as a public project on SonarCloud

Set Up

Just testing? You can [create a project manually](#).
[Setup a monorepo](#).

Set up project for Clean as You Code

The new code definition sets which part of your code will be considered new code.

This helps you focus attention on the most recent changes to your project, enabling you to follow the Clean as You Code methodology.

Learn more: [New Code Definition](#)

Set a new code definition for your organisation to use it by default for all new projects

This can help you use the Clean as You Code methodology consistently across projects.

[Rajas Dholam - Administration - New Code](#)

The new code for this project will be based on:

☒ Previous version

Any code that has changed since the previous version is considered new code.

Recommended for projects following regular versions or releases.

☐ Number of days

Any code that has changed in the last x days is considered new code. If no action is taken on a new issue after x days, this issue will become part of the overall code.

Recommended for projects following continuous delivery.

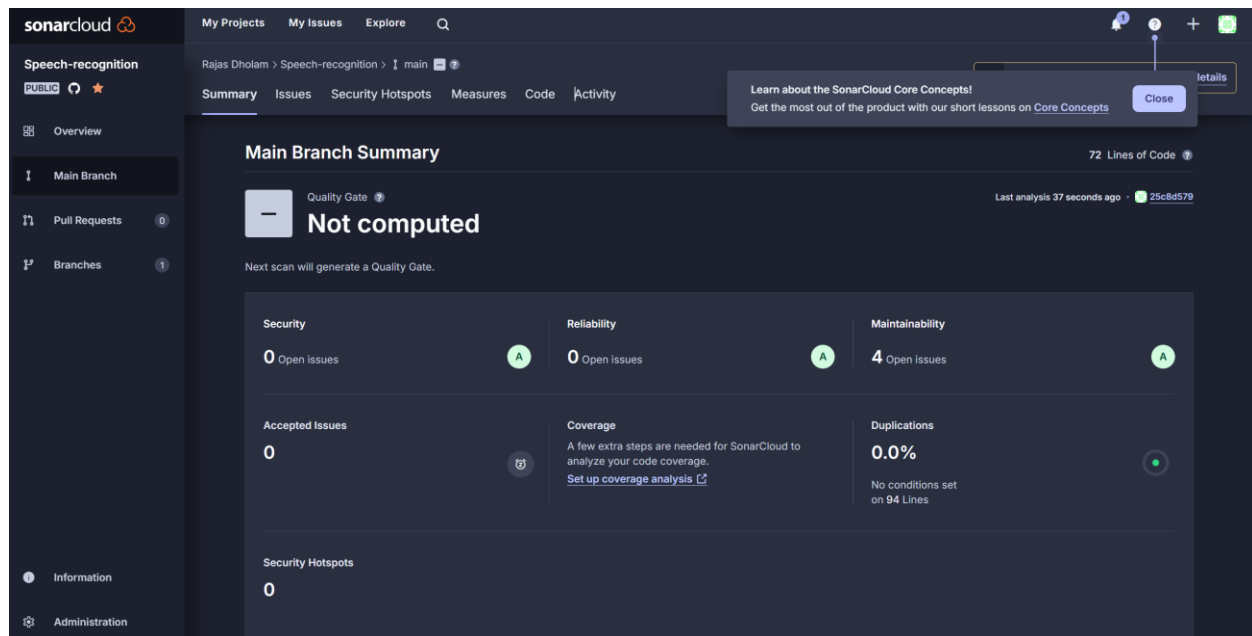
You can change this at any time in the project administration

Back

Create project

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Step 3) To analyze your Python project, you need to set up the SonarScanner in your project repository.

Option 1: Using SonarCloud GitHub Actions (Recommended for GitHub Projects)

1. Add SonarCloud Configuration:

In your repository, create a file `.github/workflows/sonarcloud.yml` with the following content

This yaml cloud add in the project

Speech-recognition / Name your file... in main

Edit Preview Code 55% faster with GitHub Copilot

```
1 name: SonarCloud Scan
2
3 on:
4   push:
5     branches:
6       - master
7
8 jobs:
9   sonarcloud:
10    runs-on: ubuntu-latest
11    steps:
12      - name: Checkout repository
13        uses: actions/checkout@v2
14
15      - name: Set up Python
16        uses: actions/setup-python@v2
17        with:
18          python-version: '3.x'
19
20      - name: Install dependencies
21        run: |
22          python -m pip install --upgrade pip
23          pip install -r requirements.txt
24
25      - name: Sonarcloud Scan
26        uses: sonarsource/sonarcloud-github-action@v1.9
27        env:
28          SONAR_TOKEN: ${ secrets.SONAR_TOKEN }
29        with:
30          projectBaseDir: .
31
32
```

Use **Control + Shift + M** to toggle the **tab** key moving focus. Alternatively, use **esc** then **tab** to move to the next interactive element on the page.

rajasdholam20 / Speech-recognition

Code Issues Pull requests Actions Projects Wiki Security Insights Settings

main Speech-recognition /

rajasdholam20 Create sonarcloud.yml 2412024 now History

Name	Last commit message	Last commit date
README.md	Initial commit	last year
sonarcloud.yml	Create sonarcloud.yml	now
speech_recognition.py	Add files via upload	last year

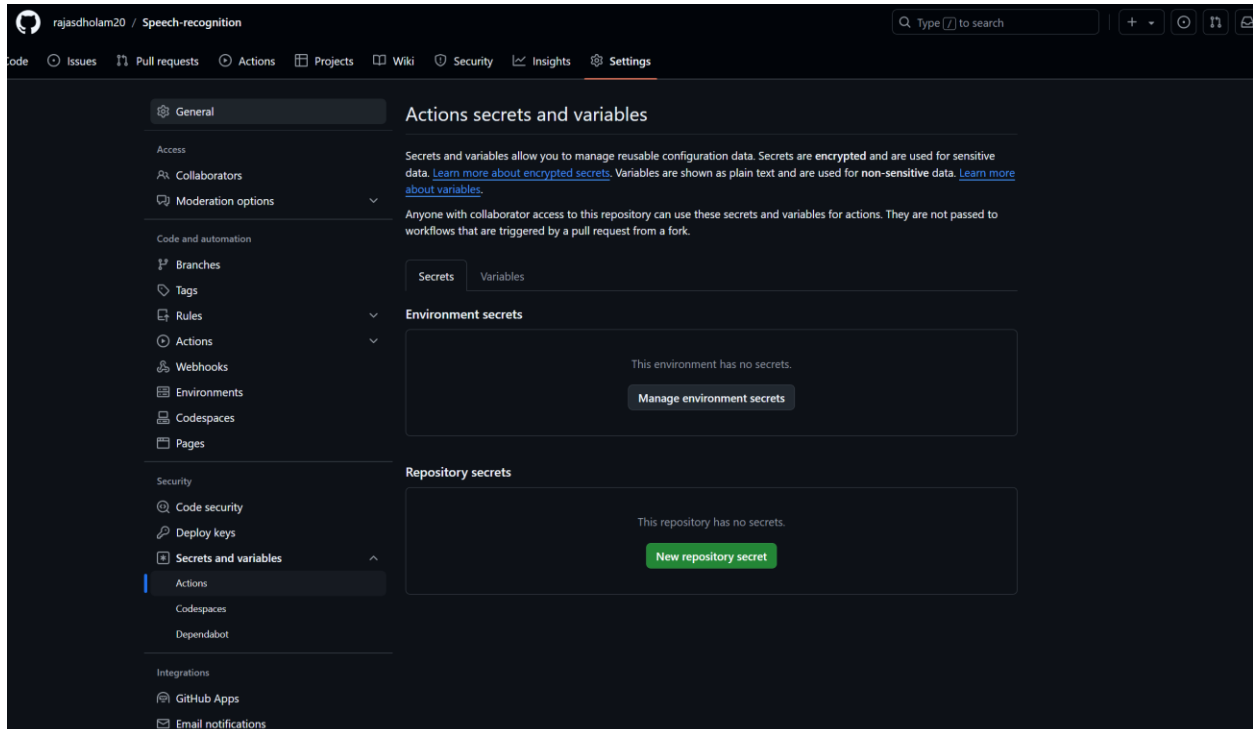
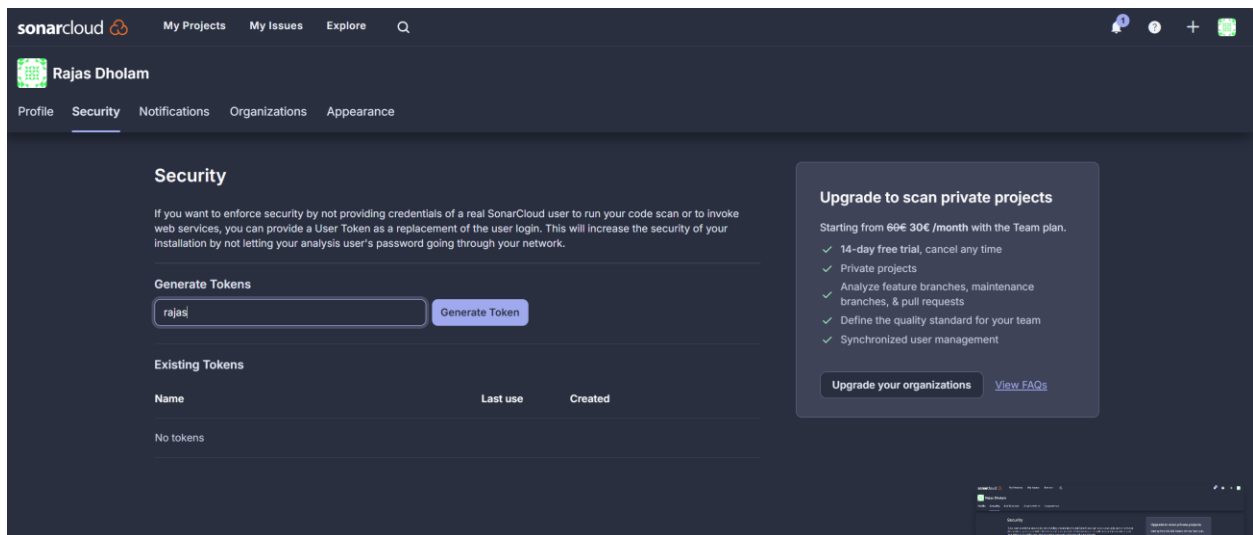
README.md

Speech-recognition

Speech recognition system

Step 4) Generate a SonarCloud Token:

- Go to **SonarCloud > My Account > Security**.
- Click **Generate Token** and copy the token.
- Add this token as a secret in your GitHub repository:
 - Go to **Repository > Settings > Secrets > Actions > New repository secret**.
 - Name the secret SONAR_TOKEN and paste the token.



Actions secrets / New secret

Name *

rajas

Secret *

rajasdholam

Add secret

Actions secrets and variables

Secrets and variables allow you to manage reusable configuration data. Secrets are **encrypted** and are used for sensitive data. [Learn more about encrypted secrets](#). Variables are shown as plain text and are used for **non-sensitive** data. [Learn more about variables](#).

Anyone with collaborator access to this repository can use these secrets and variables for actions. They are not passed to workflows that are triggered by a pull request from a fork.

Secrets

Variables

Environment secrets

This environment has no secrets.

Manage environment secrets

Repository secrets

New repository secret

Name 

Last updated



RAJAS

now



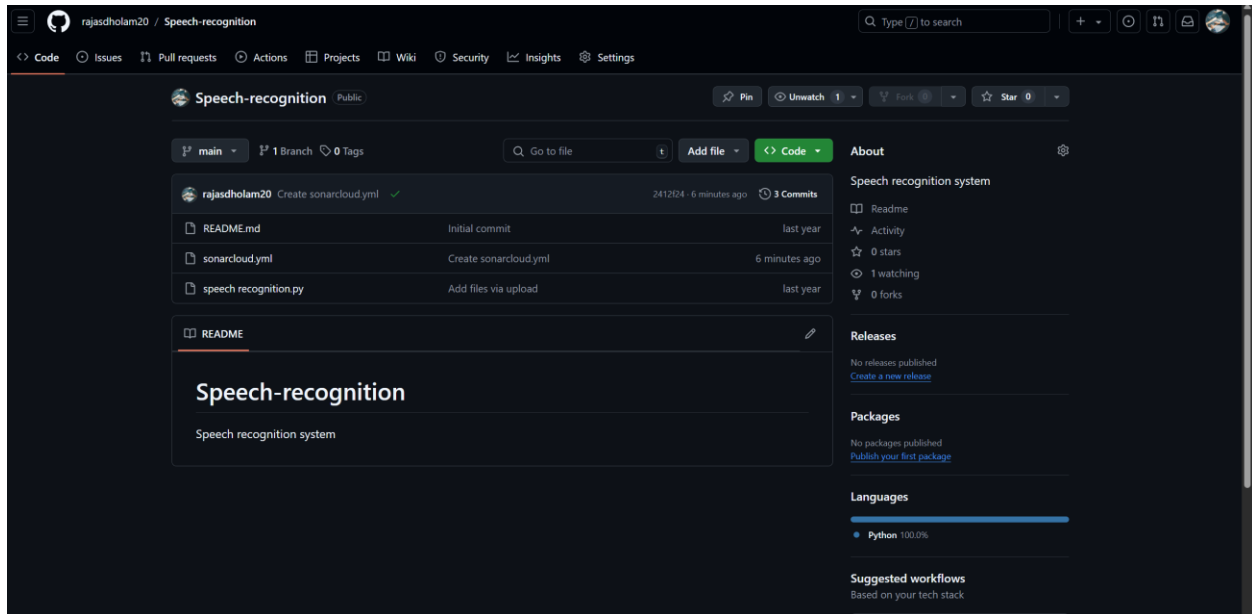
Action

Secrets and
data. [Learn
about vari](#)

Anyone with

Step 5) Push Your Changes to GitHub:

Once you push this configuration to your repository, GitHub Actions will run and integrate SonarCloud for code quality analysis.



Step 6) Fix Issues and Re-Analyze

1. I Review the issues SonarCloud detected code smell and bugs
2. I Fix these issues in code.
3. And lastly Push the changes to your repository, and SonarCloud will automatically re-run the analysis if GitHub Actions is configured.

Speech-recognition

Public

PinUnwatch1ForkStar0

main1 Branch0 Tags

Go to file

Add fileCode

rajasdholam20 Create sonarcloud.yml

241224 · 8 minutes ago3 Commits

README.mdInitial commitlast year

sonarcloud.ymlCreate sonarcloud.yml8 minutes ago

speech_recognition.pyAdd files via uploadlast year

README

Speech-recognition

Speech recognition system

About

Speech recognition system

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Activity

0 stars

1 watching

0 forks

Releases

No releases published

Create a new release

Packages

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Languages

Python 100.0%

Suggested workflows

Based on your tech stack

SLSA Generic generator

Configure

Generate SLSA3 provenance for your

Speech-recognition

Public

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