

Annual Performance Appraisal Report

FOR

Officer of the National Informatics Centre

Scientist-B

Name of the Officer: Shri PARJANYA CHOPKAR

Employee Code: 7773

Report for the year/ period ending: 03/06/2022 to 31/12/2022

Government of India
Ministry of Electronics and Information Technology
NATIONAL INFORMATICS CENTRE

FORM

Annual Performance Appraisal Report of Scientist
(Scientific Officer 'SB' & above)

Reporting for the year/period ending 03/06/2022 - 31/12/2022

PERSONAL DATA

PART 1 -To be filled by the Administrative Section

- 1. Name:** Shri PARJANYA CHOPKAR
- 2. Designation:** Scientist-B
- 3. Period Report:** From 03/06/2022 To 31/12/2022
- 4. Date of Birth:** 01/02/1994
- 5. Date of Joining:** In Government : 03/06/2022
In NIC : 03/06/2022
- 6. Date of Appointment to the present grade:** 03/06/2022
- 7. Presently posted in (State/UT Unit):** Artificial Intelligence Resource
- 8. Present Pay:** 56100 Level 10 Pay Index 1
- 9. Academic Qualifications:** B.Tech. (Computer Science)
- 10. Period of absence from duty (On leave, training, etc. during the period under report. If undergone training, please specify)**

EARNED LEAVE: from 03/10/2022 to 04/10/2022,EARNED LEAVE: from 25/10/2022 to 01/11/2022

PART 2 - To be filled in by the Officer reported upon

1. Brief description of duties/ Area of Activities assigned/ Project assigned

Ministry of Micro, Small and Medium Enterprises Project :

Requirement : Officers from the Ministry used to give new innovative ideas to renovate the system. But sometimes the idea given may duplicate with another existing idea which had already been given by someone else. So here the requirement was to avoid such duplication of ideas to reduce human intervention of comparing between all existing ideas. And it is likely impossible to manually compare the whole summary of a new idea with a list of numerous old ideas.

Work : Built an AI model where it compares new upcoming ideas with existing lists of ideas. For that I used a hugging face model which is a pretrained model of finding cosine similarity between two paraphrases successfully. Here I built an API on python using FastAPI library.

Application of Artificial Intelligence on Health Project:

Requirement : I was a point of contact for all AI related requirements in health projects. Where I had a task to collaborate with our existing APIs whatever our AI division had developed till now.

Those are AI Manthan, AI Tainaatee, AI Vaani, AI Saransh, AI Satyapikanaan, Panini, Shruti

We had a plan to find gaps which we can fill by AI applications with those existing APIs on any Health Project like sickle cell, eHospital, etc.

Work: Mhatra API Integration with Health related Projects : Mhatra is an API which will take input on one language and translate it to desired language. E.x., If someone is speaking on native language then it will convert it into a common understandable language like English/Hindi and vice versa.

So we have integrated this API on sickle cell where the name is written in english then it will convert into native language.

National Medical Council Dashboard:

Requirement: Portal to show the number of headcounts in different areas of Hospitals. Cameras were installed on different area of Hospital like OPD, OT, LectureHall, Main Entrance, etc. Requirement was to find head count on particular time at particular mentioned area to monitor the presence of people at hospital.

Work :

1. Developed a portal on Frontend as Bootstrap/Ajax/JavaScript
2. Backend as Python Flask
3. DB as MongoDB
4. Consumed an headcount API built upon artificial intelligence which will take an image frame as input and returns an output of total headcount present at that moment on image frame.

2. Please specify target/objective/goals (in quantitative or other terms) of works you set for yourself or that were set for you, eight to ten items of work in the order of priority and your achievement against each target.(Example: annual Action plan for your Division.)

A. Targets/Objective/Goals

Goal :

1. To deliver an AI model which will compare two innovation ideas.
2. To facilitate application of Artificial Intelligence on Health Project.
3. To Increase the scope of Artificial Intelligence in the Health Sector.
4. To enhance the functionality of National Medical Council Video analytic Dashboard with ontime deliverable.
5. To enhance personal skill related to Artificial Intelligence

B. Achievements.

1. Achieved the application of Mhatra API on sickle cell project across India.
2. Facilitated application of Artificial Intelligence on Health Project.
3. Increased the scope of Artificial Intelligence in Health Sector
4. On time delivered modules of the National Medical Council Video Analytic Dashboard application. Development is in progress for the remaining module.
5. I have done few VidyaKosh Courses as below for enhancing own technical skills :
 1. Blockchain Technologies: Ethereum 2022
 2. Image Processing with OpenCV 2022

C. Other major activities

NA

3(A). Please state briefly, the shortfalls with reference to the targets/objectives/goals referred to in item 2. please specify constraints, if any in achieving the targets

NA

(B). Please also indicate items in which there have been significantly higher achievements and your contribution thereto.

NA

4. Please state whether the annual return on immovable property for the preceding calendar year was filed within the prescribed date i.e 31st january of the year following the calendar year. if not, the date of filling the return should be given

yes