

Project Contribution Report

Instructions

This is an individual assignment. Complete this report for all project team members, **including yourself**. In the template below, replace each field delineated by <...> with the information requested, removing the angle brackets "<>".

Please name this file as follows before uploading your submission: <project advisor name> <project number> <your name>. The project advisor name and project number should match the info in your Canvas group name. For names, use the *last-name,first-name* format. An example file name might be: *Advisor,Joe 1 Doe,John.docx*.

For each team member, rate the member on a scale of 1 (best) – 10 (worst) and provide a description of the project contribution for the team member. Please be detailed and specific when you describe the project tasks the team member completed during the project. The description should cover the project as a whole (including both CMPE 295A and CMPE 295B if this is a report for CMPE 295B). The tasks described should be project tasks and not CMPE 295A or CMPE 295B assignments.

Project Info

Project Title: AI Enhanced Genetic Optimization for Crop Breeding

Project Advisor: Chandrasekhar Vuppalapati

Team Member 1 (self)

Name: Anumanchi, Abhinav Sriharsha

Rating: 1

Contribution Description

I played an integral role in the research and execution of the project. I was responsible for conducting in-depth literature analysis, identifying relevant scientific work on genetic optimization, and evaluating artificial intelligence models applicable to crop breeding. I contributed to shaping the research framework, supported data gathering efforts, and synthesized key insights into organized reports. I collaborated consistently with the team to align our research direction and provided timely input that enhanced the overall structure and impact of our work.

Team Member 2

Name: Ponnala, Vivek

Rating: 1

Contribution Description

Vivek made substantial contributions during the initial research phase. He conducted detailed reviews of existing methodologies, explored various AI approaches in the agricultural domain, and played a key role

in forming the theoretical foundation of the project. He also helped formulate research questions, participated in planning data collection strategies, and assisted in documenting findings. His collaborative attitude and analytical thinking were crucial in guiding the project's direction.

Team Member 3

Name: Singarapu, Shashi Kumar

Rating: 1

Contribution Description

Shashi was instrumental in gathering and processing datasets essential to the project. He researched advanced AI applications in crop improvement and synthesized critical observations from his investigations. He was proactive in organizing findings, contributed to the development of the project proposal, and worked closely with the team to ensure the clarity and precision of our research goals. His reliability and attention to detail significantly enhanced the quality and consistency of our work.