**PROJECT LOGBOOK**

**Subject Code : CSP805**

GROUP MEMBERS

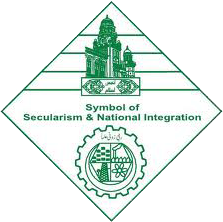
1. Khan Shayaan Shakeel - 3118030

2. Masalawala Murtaza Shabbir - 3118033

3. Qazi Faizan Ahmed - 3118039

Name of the Mentor

Er. Nafisa Mapari



**Department of Computer Engineering**

# **M. H. Saboo Siddik College of Engineering,**

# **Saboo Siddik Polytechnic Road, Clare Road, Byculla,**

**Mumbai-400008**

**University of Mumbai (AY 2021-22)**

# **INSTITUTE VISION & MISSION**

## **VISION:**

To bring out the whole Muslim Community from the quagmire of poverty and educational backwardness and encourage, enlighten, and prepare all its members to be useful citizens who will contribute to make a prosperous, healthy, and strong nation and to promote national integration by giving equal opportunity to all communities for their promotion and progress.

## **MISSION:**

To impart quality higher technical education to the students of Muslim Community in particular, and to students of all other communities to be competent, dedicated, and responsible citizens who shall also be the harbingers of secularism and national integration to the complete satisfaction of all stake holders.

# **COMPUTER ENGINEERING DEPARTMENT**

## **VISION:**

Endeavor to be a Centre for Educational excellence in Computer Engineering to nurture technology leaders of tomorrow for the gradual progress of society.

## **MISSION:**

* To teach Computer Engineering as a multifaceted, humanistic discipline of critical thinking and cutting-edge research problem solving.
* To build competitive academic environment for training and placements, higher studies, and proactive innovative leadership.
* Encourage entrepreneurship towards self-employment for economic well-being of individual and the nation.
* Facilitate academia-industry collaborations and societal outreach programmes.

# **PROGRAM EDUCATIONAL OBJECTIVES (PEO's)**

| I | To provide students with a solid foundation in their core concepts of mathematical, scientific and computer engineering fundamentals required to comprehend, analyse, and design solutions for real life problems. |
| --- | --- |
| II | To inculcate in students, a balanced outlook with professional and ethical attitude, develop effective communication skills, teamwork, and leadership qualities with multidisciplinary approach. |
| III | To prepare students to excel in postgraduate programs through an excellent academic environment and make them ready for productive employment in the public or private sectors and provide lifelong learning experience. |
| IV | To provide broad educational and research experience through interdisciplinary and industry centric programs. |

**PROGRAM OUTCOMES (POs)**

| **Program Outcome Code** | **Program Outcome Description** |
| --- | --- |
| PO1 | Basic Engineering knowledge: An ability to apply the fundamental knowledge in mathematics, science, and engineering to solve problems in Computer engineering. |
| PO2 | Problem Analysis: Identify, formulate, research literature, and analyse computer engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences and computer engineering and sciences |
| PO3 | Design/ Development of Solutions: Design solutions for complex computer engineering problems and design system components or processes that meet specified needs with appropriate consideration for public health and safety, cultural, societal, and environmental considerations. |
| PO4 | Conduct investigations of complex engineering problems using research-based knowledge and research methods including design of experiments, analysis and interpretation of data and synthesis of information to provide valid conclusions. |
| PO5 | Modern Tool Usage: Create, select, and apply appropriate techniques, resources and modern computer engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations. |
| PO6 | The Engineer and Society: Apply reasoning informed by contextual knowledge to assess societal, health, safety, legal and cultural issues, and the consequent responsibilities relevant to computer engineering practice. |
| PO7 | Environment and Sustainability: Understand the impact of professional computer engineering solutions in societal and environmental contexts and demonstrate knowledge of and need for sustainable development. |
| PO8 | Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of computer engineering practice. |
| PO9 | Individual and Teamwork: Function effectively as an individual, and as a member or leader in diverse teams and in multidisciplinary settings. |
| PO10 | Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions. |
| PO11 | Project Management and Finance: Demonstrate knowledge and understanding of computer engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments. |
| PO12 | Life-long Learning: Recognize the need for and have the preparation and ability to engage in independent and lifelong learning in the broadest context of technological change. |

**PROGRAM SPECIFIC OUTCOMES (PSOs)**

| PSO1 | **Professional Skills** - The ability to develop programs for computer-based systems of  varying complexity and domains using standard practices. |
| --- | --- |
| PSO2 | **Successful Career** - The ability to adopt skills, languages, environment, and platforms for  creating innovative career paths, being successful entrepreneurs or for pursuing higher studies. |

**STUDENT INFORMATION**

## **Project Title: *Generate detailed caption of an image using deep learning***

|  | **Student 1** | **Student 2** | **Student 3** |
| --- | --- | --- | --- |
| **Roll No/PRN** | 3118030 | 3118033 | 3118039 |
| **Name** | Khan Shayaan Shakeel | Masalawala Murtaza | Qazi Faizan Ahmed |
| **Class with   Division** | Computer C | Computer C | Computer C |
| **Contact No.** | 7039372050 | 8082259572 | 9702354590 |
| **E-mail** | [shayaan.3118030.co@mhssce.ac.in](mailto:shayaan.3118030.co@mhssce.ac.in) | [murtaza.318033.co@mhssce.ac.in](mailto:murtaza.318033.co@mhssce.ac.in) | [faizan.3118039.co@mhssce.ac.in](mailto:faizan.3118039.co@mhssce.ac.in) |
| **Address** | 301, A-Wing, | B-Wing, | 85/404/B-Wing, |
| Darul Salam Chs. Ltd., | Al-Sa’adah Complex | Nehru Nagar, |
| Mira Road, East, | IR Road, | Kurla East, |
| Thane-401107 | Mumbai-400003 | Mumbai-400024 |

**INSTRUCTIONS TO STUDENTS:**

1. The logbook must be submitted to the Guide or Co-Guide for verification and evaluation of project activities at least once in a week.
2. Logbook duly signed by the guide must be submitted with a project report for evaluation at the end of semester to the department.

# **DECLARATION**

I declare that this project represents my ideas in my own words and wherever others' ideas or words have been included, I have adequately cited and referenced the original sources. I also declare that I have adhered to all principles of academic honesty and integrity and have not misrepresented or fabricated or falsified any idea/data/fact/source in my project work. I promise to maintain minimum 75% attendance, as per the University of Mumbai norms. I understand that any violation of the above will be cause for disciplinary action by the Institute.

Yours Faithfully

1. Khan Shayaan Shakeel (3118030)
2. Masalawala Murtaza (3118033)
3. Qazi Faizan Ahmed (3118039)

(Signature of Students)

# **Letter of Acceptance**

I undersigned, **Er.** **Nafisa Mapari** working in the Computer Engineering department, willing to guide the project titled “***Generate detailed caption of an image using deep learning”*** for the Major Project Semester VIII respectively for the ***Academic Year 2021-22.*** The names of the students are:

1. **Khan Shayaan Shakeel**
2. **Masalawala Murtaza Shabbir**
3. **Qazi Faizan Ahmed**

(Project Guide) (Mini Project Coordinator) (HOD Computer)

.

# **COURSE OUTCOMES**

| **CO**  **No.** | **COURSE OUTCOME** | **POs covered** | **PSOs**  **covered** |
| --- | --- | --- | --- |
| CO1 | Identify problems based on societal /research needs. | PO1, PO2, PO4 | PSO1, PSO2 |
| CO2 | Apply Knowledge and skill to solve societal problems in a group. | PO1, PO2, PO4,  PO5, PO6, PO8 | PSO1, PSO2 |
| CO3 | Develop interpersonal skills to work as a member of a group or leader. | PO1, PO2, PO4,  PO9, PO11 | PSO1, POS2 |
| CO4 | Draw the proper inferences from available results through theoretical/ experimental/simulations. | PO1, PO2, PO4,  PO5, PO6, PO12 | PSO1, POS2 |
| CO5 | Analyse the impact of solutions in societal and environmental context for sustainable development. | PO2, PO3, PO4,  PO7, PO12 | PSO1, POS2 |
| CO6 | Use standard norms of engineering practices | PO1, PO2, PO4,  PO12 | PSO1 |
| CO7 | Excel in written and oral communication. | PO1, PO4, PO8,  PO9, PO10, PO12 | PSO1 |
| CO8 | Demonstrate capabilities of self-learning in a group, which leads to lifelong learning. | PO1, PO2, PO4,  PO12 | PSO1 |
| CO9 | Demonstrate project management principles during project work. | PO1, PO2, PO4,  PO11, PO12 | PSO1, POS2 |

**CO-PO-PSO MAPPING**

|  | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| CO1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CO2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CO3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CO4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CO5 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CO6 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

**SCHEDULE FOR MINI PROJECT**

| **Date** | **Week** | **Contents** | **Remark** | **Guide Sign** |
| --- | --- | --- | --- | --- |
| 1st Aug’21-8thAug’21 | 1 | Research about the topic selected |  |  |
| 8th Aug-15th Aug | 2 | Task division among the group members |  |  |
| 22nd Aug-29th Aug | 3 | Step towards the Front-End development |  |  |
| 14th Sept-28th Sept | 4 | Back-End Implementation  > Image based model  > Language based model |  |  |
| 1st Oct-8th Oct | 5 | Integration of Image and Language based model |  |  |
| 15th Oct-28th Oct | 6 | Training the model |  |  |
| 30th Oct-6th Nov | 7 | Evaluation |  |  |
| 15th Dec-28th Dec | 8 | Testing |  |  |
| 3rd Jan’22-10th Jan’22 | 9 | Integration of Front-End and Back-End |  |  |
| 15th Jan-28th Jan | 10 | Verifying and Solving Errors |  |  |
| 2nd Feb-9th Feb | 11 | Documentation |  |  |

**PROGRESS/ATTENDANCE REPORT**

| Title of the Project:Generate detailed caption of an image using deep learning | |
| --- | --- |
| Group No. | **Khan Shayaan Shakeel – 3118030**  **Qazi Faizan Ahmed – 3118039**  **Masalawala Murtaza Shabbir - 3118033** |
|
|
|
| Name of the Supervisor: **Er. Nafisa Mapari** | |

| **Sr. No** | **Date** | **Attendance** | | | | **Progress/Suggestion** | **Mapping** | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **CO** | **PO** | **PSO** |
| 1 | 8-08-21 |  |  |  |  | Research process completed | 1 | 1, 2, 4 | 1, 2 |
| 2 | 15-8-21 |  |  |  |  | Task Division | 1, 2 | 1, 2, 4,5, 6, 8 | 1, 2 |
| 3 | 29-8-21 |  |  |  |  | Front End Development Complete | 3 | 1, 2, 4, 9, 11 | 1, 2 |
| 4 | 28-9-21 |  |  |  |  | Back End Implementation in progress | 4 | 1, 2, 4, 9, 5 | 1 |
| 5 | 8-10-21 |  |  |  |  | Integration of models completed | 4, 5 | 1, 2, 4, 7, 12 | 1 |
| 6 | 28-10-21 |  |  |  |  | Training in progress | 5 | 1, 2, 4 | 1, 2 |
| 7 | 6-11-21 |  |  |  |  | Evaluation completed | 6 | 1, 2, 5, 3, 6 | 2 |
| 8 | 28-12-21 |  |  |  |  | Testing Completed | 6, 7 | 1, 2, 4, 12 | 2 |
| 9 | 10-1-22 |  |  |  |  | Integration of front end and back end completed | 7 | 1, 2 | 2 |
| 10 | 28-1-22 |  |  |  |  | Verifying and solving errors in progress | 8 | 1, 2, 4, 11 | 1, 2 |
| 11 | 9-2-22 |  |  |  |  | Documentation completed | 9 | 1, 2, 11 | 1, 2 |

Sign of the Supervisor

# **EXAMINER'S FEEDBACK FORM**

Name of External examiner: Hasib Shaikh College of External examiner: KCCEMSR, Thane Name of Internal examiner:

Date of Examination: 09 / 05 / 22

No. of students in project team: **3**

Availability of separate lab for the project: **Yes**

**Student Performance Analysis** (Put Tick as per your Observation)

| Excellent (3) Very Good (2) Good (1) | | | | |
| --- | --- | --- | --- | --- |
| **Sr. No.** | **Observation** | **(3)** | **(2)** | **(1)** |
| 1 | Quality of problem and Clarity | ✓ |  |  |
| 2 | Innovativeness in solutions |  | ✓ |  |
| 3 | Cost effectiveness and Societal impact | ✓ |  |  |
| 4 | Full functioning of working model as per stated requirements | ✓ |  |  |
| 5 | Effective use of skill sets | ✓ |  |  |
| 6 | Effective use of standard engineering norms | ✓ |  |  |
| 7 | Contribution of an individual as member or leader | ✓ |  |  |
| 8 | Clarity in written and oral communication | ✓ |  |  |
| 9 | Overall performance | ✓ |  |  |

o Can the same mini project extend to next semester by adding new objectives/ideas? (Yes)

o If yes, suggest new Innovative Technique/Idea/ objectives related to this project.

The project can be extended to generate real time captions for videos.

## **Signature of External Examiner Signature of Internal Examiner**