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| **Working Title of the Project:** | | **Indian Postal Automation** | | |
| **Project Site / Location** | | Virtual | | |
| **Name and address of the company / organisation**  **(Applicable for projects with industry or industry support)** | | SRM IST, Kattankulathur, Chengalpattu District-603203 | | |
| **Supervision Team** | | | | |
|  | **Supervisor** | | **Co-Supervisor** | **External Supervisor**  **(If applicable)** |
| **Name** | Jackulin Mahariba A | |  |  |
| **Designation** |  | |  |  |
| **Department** | Computational Intelligence | |  |  |
| **Campus** | Kattankulathur | |  |  |
| **Telephone** | 9841088361 | |  |  |
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| **Name of student** | **Register Number** | **Department** | **Mobile Number** | **Email ID** |
| Paluru Surya Kiran | RA1911026010057 | CSE | 7207414246 | pk4395@srmist.edu.in |
| Darshan Ramesh | RA1911026010011 | CSE | 8762489171 | dr7625@srmist.edu.in |

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| **Degree/ program** | B.Tech | **Specialisation** | Computer Science & Engineering  **Project Batch ID** |
| **Academic Year** | 2022-2023 (Even) | **Semester** | 8 |
| **Course Code** | **18CSP109L/ 18CSP111L/**  **18CSP112L** | **Course Title** | Project/  Internship/  Project |
| Mission Statement | | | |
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| **Problem (or) Product Description:** | | | |
| **The Indian Postal Automation project aims to address the inefficiency and challenge in India's existing manual postal system. This project aims to design and implement an** | | | |
| **automated postal system that can improve the speed and accuracy of postal operations while reducing the cost of operations. This paper addresses the most common and essential** | | | |
| **problem in the postal department of parcel segregation tasks by proposing a fully-automated solution. The proposed methodology uses bidirectional LSTM for handwritten** | | | |
| **address recognition, followed by address parsing techniques and the construction of knowledge graphs to pinpoint the accurate location of the delivery. This proposed solution** | | | |
| **can bring the parcel segregation process from hours to minutes.** | | | |
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| **Assumptions and Constraints** | | | |
| The handwritten text is plain and not cursive. | | | |
| **Stakeholders** | | | |
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**Division of work and contributors**

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| **Time period** | | **Activities or components of the project** | **Name/Register Number of the Individual Contributor** | **Names/Register Number of the Joint Contributors** |
| **From Date** | **To Date** |
| 04/01/23 | 24/01/23 | Literature Survey | RA1911026010011  RA1911026010057 | Darshan Ramesh  Paluru Surya Kiran |
| 24/01/23 | 16/02/23 | Design and construction of Address Parser | RA1911026010011 | Darshan Ramesh |
| 24/01/23 | 16/02/23 | Design and construction of OCR | RA1911026010057 | Paluru Surya Kiran |
| 18/02/23 | 21/02/23 | Rectifying output of OCR module | RA1911026010057 | Paluru Surya Kiran |
| 18/02/23 | 08/03/23 | Research on Knowledge graph | RA1911026010011  RA1911026010057 | Darshan Ramesh  Paluru Surya Kiran |
| 08/03/23 | 18/03/23 | Tuning Address parser | RA191102610011 | Darshan Ramesh |
| 08/03/23 | 18/03/23 | Knowledge graph construction | RA1911026010057 | Paluru Surya Kiran |
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**Division of work and contributors**

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| --- | --- | --- | --- | --- |
| **Time period** | | **Activities or components of the project** | **Name/Register Number of the Individual Contributor** | **Names/Register Number of the Joint Contributors** |
| **From Date** | **To Date** |
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**Summary record of major progress meetings with supervisors**

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| **Summary record of major progress meetings with supervisors** | |  | **Working title of dissertation/research project:** | |
| **Meeting date & supervisors present** | **Progress since last meeting** | **Agreed programme of work and target dates** | **Other issues, e.g. facilities, supervision, training needs, etc.** | **Date of next meeting** |
| 24-01-23 | Finished Literature survey | Design and construction of OCR module and Address parser module before 16/02/23 |  | 06/02/23 |
| 06/02/23 | Progress in OCR and Address Parser Module | Further steps and suggestions in building modules |  | 15/02/23 |
| 15/02/23 | Completed OCR module and progress in Address parser module | Building of Knowledge graph |  | 18/02/23 |

**Summary record of major progress meetings with supervisors**

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| **Summary record of major progress meetings with supervisors** | |  | **Working title of dissertation/research project:** | |
| **Meeting date & supervisors present** | **Progress since last meeting** | **Agreed programme of work and target dates** | **Other issues, e.g. facilities, supervision, training needs, etc.** | **Date of next meeting** |
| 18/02/23 | Finished OCR and Address Parser Module | To make modifications suggested in Review meeting 1 along with the rectification of faulty OCR model. |  | 22/02/23 |
| 21/02/23 | Rectified OCR model output | Research on Knowledge graph |  | 05/03/23 |
| 08/03/23 | Complete research on Knowledge graph | Construction of Knowledge graph |  | 15/03/23 |
| 15/03/23 | Constructed Knowledge graph | Complete OCR module, Address parser module, Construction of Knowledge graph |  | 18/03/23 |

**Summary record of major progress meetings with supervisors**

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| **Summary record of major progress meetings with supervisors** | |  | **Working title of dissertation/research project:** | |
| **Meeting date & supervisors present** | **Progress since last meeting** | **Agreed programme of work and target dates** | **Other issues, e.g. facilities, supervision, training needs, etc.** | **Date of next meeting** |
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**Worksheet / Data collection / Observation etc**

**Journal Publication Details**