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**CS6W50 Career Development Learning (CDL) Form**

**Student**

Student Londonmet ID: 22085771

Student Name: Ronak Krishna Shrestha

College E-mail ID: np01ai4s230014@islingtoncollege.edu.np

Mobile No: 9761895313

Student’s work/placement address: banasthali

**Employer**

Employer Name : PalmMind technology

Employer's Address including department: Banasthali

Company Supervisor’s Name and Position: Krisha Tiwari

Company Supervisor’s Tel No: 9863342090

Company Supervisor’s email address: Krisha.tiwari@gmail.com

**Work Related Learning Activity**

Start Date: 20/08/024

End Date (if known):

Your role at the placement (position): Machine Learning Intern

Brief description of your work at the placement: In this internship, I will be working on developing chatbots for company websites using generative AI. My work will involve utilizing LangChain, Retrieval-Augmented Generation (RAG) architecture, and other machine learning techniques to enhance chatbot capabilities and improve user interactions.

**Proposed learning outcomes from the Work Related Learning Activity:**

It is very important that you read the learning agreement guide before filling in this form. You need to list **at least 7 learning** outcomes, and at least **two** learning activity should be closely relevant to the course you are doing at the university.

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| --- | --- | --- | --- |
| **Learning Outcome ID** | **Learning outcomes**  By the end of my work placement, I will be able to develop what skills or knowledge: (e. g. develop my XXX skills, enhance my knowledge of XXX) | **Activities and tasks**  I will achieve this learning outcome by carrying out what tasks (e. g. participating in a Web development project, or to work in a team, or to engage in group discussion) | **Evidence**  Evidence I could use to demonstrate that I have achieved this learning outcome? (e. g. feedback from the employer, artefacts I will develop, screen shots or video capture, meeting minutes) |
| LO1 | **Effective Communication and Collaboration**  Improve communication skills with team members and clients. | Participate in daily stand-ups and meetings.  - Collaborate with team leads, developers, and full-stack team.  - Provide status updates through Slack and other communication channels. | Feedback from colleagues and team lead.  - Slack messages and meeting minutes. |
| LO2 | **Critical Thinking and Decision-Making**  Develop decision-making skills through problem-solving in chatbot projects. | * Collaborate on decision-making for chatbot architecture, data processing, and deployment.  - Work on fixing bugs and handling QA feedback. | GitHub history and pull requests.  - QA feedback and issue resolution documentation. |
| LO3 | **Time Management and Prioritization**  Enhance time management by balancing multiple tasks and meeting deadlines. | * Organize and prioritize tasks for chatbot development, vector store creation, and deployment.  - Coordinate college schedule with work. | * Timely completion of tasks documented in project timelines.  - Feedback from supervisor regarding task management.. |
| LO4 | **Self-Learning and Adaptability to New Tools**  Enhance knowledge of tools like LangChain, FastAPI, and Redis, and adapt to project requirements. | * Self-study of LangChain, embeddings, and vector databases.  - Learn and implement new frameworks (FastAPI, Redis). | Documented learning in personal notes or project Wiki.  - Code snippets demonstrating use of new tools. |
| LO5 | |  | | --- | | **Adaptability to Client Requests and Customization**  Improve flexibility and responsiveness to client needs by adapting chatbot features based on client feedback and demands. | | * Collaborate with the team to adjust chatbot functionality as per evolving client requirements.  - Work on implementing changes based on client feedback during meetings and discussions.. | Meeting notes and feedback demonstrating changes made based on client input.  - Project timelines showing implemented updates and customizations.  - Supervisor feedback regarding responsiveness to client needs. |
| LO6 | **Document and Data Processing**  Learn and apply data processing techniques in chatbot development. | Convert Nepali documents to Unicode, then to CSV for easier handling.  - Use tools for document chunking and vector store creation. | Screenshots of documents before and after conversion.  - CSV files and processed document evidence. |
| LO7 | **Version Control and Team Collaboration (Git/GitHub)**  Develop proficiency in version control using GitHub. | * Manage project versions, handle pull requests, and merge code from different branches.  - Collaborate with developers and testers via GitHub. | * GitHub commit history and pull request reviews.  - Feedback from the team on code contributions. |
| LO8 | **Prompt Engineering**  Enhance knowledge of prompt design and techniques. | * Work with various prompting techniques (one-shot, multi-shot, contextual) in chatbot development.  - Write detailed prompts for chatbot tools and responses. | * Screenshots of prompts used in the project.  - Code documentation showing prompt application. |
| LO9 | **API Integration for Testing** **and Redis Integration** Learn to utilize APIs for integrating and testing chatbot functionalities and Redis for chat history management. | * Use FastAPI to test and interact with the chatbot application endpoints.  - Implement API endpoints and verify functionality. * Use Redis to store and manage client chat history. | * API documentation and screenshots of API calls and responses.  - Code snippets from server.py. * - Use Redis to store and manage client chat history.. |
| LO10 | **Vector Databases and Redis Integration**  Gain experience working with vector databases and Redis for chat history management. | * Create and manage vector stores using Milvus and Chroma.  - * Use openAI embeddings for efficient retrieval. | * Create and manage vector stores using Milvus and Chroma. |

***This form is approved by WRL academic supervisor***

**Academic Supervisor Name: Mr. Umesh Nepal**

**Academic Supervisor Signature:**

**Date of Signature:**

**If you work at an external company or organization, the following “Heath and Safety checklist” form must be completed before your placement can be approved.**



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| **External Work Related Learning (PLACEMENT) PROVIDER**  **HEALTH AND SAFETY CHECKLIST** |

Name of the Placement Provider (Company name):

Placement site Supervisor:

Supervisor’s Position:

Address:

Email:

Telephone:

|  |  |  |  |
| --- | --- | --- | --- |
|  | | Yes | No |
| 1 | Do you have a written Health & Safety policy? |  |  |
| 2 | Do you have a policy regarding health and safety training for people working in your undertaking, including use of vehicles, plant and equipment, and will you provide all necessary health and safety training for the student? |  |  |
| 3 | Is the organization registered with? (tick as appropriate)  (a) the Health & Safety Executive or  (b) the Local Authority Environmental Health Department |  |  |
| 4 | **Insurance**  (a)Is Employer and Public Liability Insurance which will cover the duration of the placement?  (b) Employer and Public Liability Insurance policy number \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  (c)Will your insurance cover any liability incurred by a placement student as a result of his/her duties as an employee? |  |  |
| 5 | **Risk Assessment**  (a)Have you carried out any risk assessment of your work practices to identify possible risks whether to your own employees or to others within your undertaking?  (b)Are risk assessments kept under regular review?  (c)Are the results of risk assessment implemented? |  |  |
| 6 | **Accidents and Incidents**  (a)Is there a formal procedure for reporting and recording accidents and incidents in accordance with RIDDOR (Reporting of Injuries, Disease & Dangerous Occurrence Regulations)?  (b)Have you procedures to be followed in the event of serious and imminent danger to people at work in your undertaking?  (c)Will you report to the university all recorded accidents involving placement students?  (d)Will you report to the university any sickness involving placement students which may be attributable to the work. |  |  |

The above statements are true to the best of my knowledge and belief.

Signed on behalf of the company with the company stamp:

Name:

Signature:

Date: