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| PERSONAL DETAILS |  |
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| **University** | NMIMS Mukesh Patel School of Technology Management & Engineering    <https://engineering.nmims.edu/> |
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| **Date of Graduation** | April 2024 |

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| PROJECT PROPOSAL |
| **Title: Investigate Third Party Environments Working with the HPCC Systems**    Selected Third Party: Microsoft Azure Synapse Analytics (Since Azure Data Lake Analytics retires end of February 2024)  Deliverables: Will be implemented    Consider the following scenarios for pre deployment:  • Simple mini HPCC Systems Deployment for ECL training  • Thor only cluster (might need Roxie) |

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| TIMELINE |  |
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| ECL Training (Introduction to ECL) Part 1 and 2  Azure AZ 900 Fundamentals  Azure Synapse Introduction  Terraform and/or Ansible Basic Introduction | 8th – 25th January. |
| Understanding the HPCC components more in depth and going through documentation to see the integration of other Third-Party Software’s into HPCC  Work on the documentation for use case of Azure Synapse over GitPod/OLAP/Open BI | 29th – 31st January |
| Working on setting up environments using Ansible/Terraform to then set up Azure Synapse in them.  Selecting one component (or more) of Azure Synapse to install in Master and Worker nodes in the cluster.    Working on Python scripts to connect Azure Synapse Analytics. | February |
| Documentation of previously defined tasks and setup Unit Testing of scripts to run on Training cluster.  Calling those Python scripts via ECL language in our main cluster.  Running tests based on sample data to check the connections if data can flow from HPCC into Synapse Analytics.  Working on implementing the defined Library into newer releases of ECL Language, and modifying scripts based on previous test case results.  Finished GitHub project with Azure Synapse Analytics present in HPCC Clusters & Documentation, followed by Poster and YouTube Video. | March  &  Up to April 7th |

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| Knowledge & Skills |
| Familiar with Azure Synapse  ECL Language Familiarity  Python scripting and Shell scripting  Terraform and/or Ansible Basic Familiarity  Familiar with Docker / Kubernetes  Familiar with HPCC Components and Architecture |