Final Year PAT INTERNSHIP Project

**School of Computer Science and Engineering (SCOPE)**

**B.Tech. CSE/CPS/AL AND ML PAT CATEGORY**

**PAT INTERNSHIP ALREADY STARTED – MEETNG WITH THE VIT GUIDE ONCE IN TWO WEEKS AND UPDATING THE PAT INTERNSHIP WORK**

**Program: B.Tech. CSE Batch: 2019-2023 Course Code: CSE1904**

Register No.: 19BCE1027

Name of the Student: Aryaman Mishra Mobile No.6390159999

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| **PAT INTERSHIP Company Name:AMD (Advanced Micro Devices)** | |
| Internship start date :8th August 2022  Internship end date (Approximate):20th May 2023 | |
| Technology Working on and Work in Progress:   * HIP Architecture * ROCm Stack for High Computing Operations and Non-Graphical Functions * HIPIFY-CLANG * HIPIFY-PERL * Work in Progress: Test-hipify CLI in Linux Environment | |
| **Dec 5 to Dec 9**  **2022**  **Week 1 Report** | **While processing sample named System Wide Atomics,the executable rendered all user permissions on device as read-only.Ticket was lodged to rectify and new docker image was pulled to continue work on testhipify to run other samples by Python.** |
| **Dec 12 to Dec 16 2022**  **Week 2 Report** | **Recompilation of all samples was performed one-by-one specifically. Installation of CUDA to support AMD Architecture was performed.** |
| **Dec 26 to Dec 30 2022** | **Patch encodings were giving out patch rejection files so provisions were made to apply all patches on samples correctly.CUDA-kit dependency issue was resolved.Non-supported HIPIFY functions were debugged and deprecated functions of RocXT and ROCtracer were updated.** |

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| **Meeting with guide** | **Regular / Irregular** |

**Signature of the Student with date Name & Signature of the VIT Guide with date**

