**INSTITUTE OF AERONAUTICAL ENGINEERING**

**(AUTONOMOUS)**

Dundigal - 500 043, Hyderabad

Traits of Great Programmers

Effective Assessment for the Next Generation of Coders

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| **S No.** | **Parameters** | | **Marks** |
| **1** | **Programming Challenges and Digital Portfolios (PCDP)** | **Audit Weight: 0.20** | **20** |
|  | 1. Number of problems solved in online coding platforms: 848   Platform Profile links:   1. <https://leetcode.com/u/Mayuri_Kasetty/> 2. <https://www.geeksforgeeks.org/user/kmayu71ax/> 3. <https://www.codechef.com/users/mayuri_kasetty> 4. <https://www.hackerrank.com/profile/MAYURI_KASETTY> 5. <https://www.sololearn.com/en/profile/8310299> 6. <https://onecompiler.com/users/42tqbtake> 7. Number of streaks in coding platforms: 8. 500 days Streak – Sololearn Platform (level 16) 9. 100 days Streak – Diamond Badge getting in CodeChef 10. Digital portfolios: 11. <https://github.com/Mayuriblog> 12. <https://www.linkedin.com/in/mayuri-kasetty-55149a60/> 13. <https://scholar.google.com/citations?user=WbLF_gcAAAAJ&hl=en> | |  |
| **2** | **Essential Technical Skills for Programmers (ETSP)** | **Audit Weight: 0.30** | **30** |
|  | 1. Essential programming skills (Java / Python / PHP):   Certificate Completed   1. Java 2. Python 3. Web developer skills (HTML / CSS / JavaScript / Node.js / Django / ExpressJS):   Certificate Completed   1. CSS Basic 2. HTML 3. JavaScript 4. Mobile application developer (Java / Kotlin / Flutter / React Native):   Certificate Completed   1. Angular 2. React JS 3. Database (MySQL / MongoDB / NoSQL):   Certificate Completed   1. SQL Basic 2. SQL Intermediate 3. SQL Advanced 4. Game developer (C# / Python / Unity / Unreal):   Certificate Completed   1. Python 2. C# 3. Machine Learning / Data Scientist / Cybersecurity:   Certificate Completed   1. Explore Machine Learning using Python | |  |
| **3** | **Industry Driven Hackathons (IDH)** | **Audit Weight: 0.10** | **10** |
|  | 1. Mentoring students in industry-driven hackathons:   Virtusa Jatayu Ideathon | |  |
| **4** | **Technical Skill Proficiency (TSP)** | **Audit Weight: 0.20** | **20** |
|  | 1. Expert (Java / SQL / Python / JFS / C++ / C# / React / JavaScript / Git): 2. SQL Golden Level Badge in HackerRank 3. SQL 50 Badge in Leetcode 4. DBMS – NPTEL Certification 5. Advanced (Go / Rust / Node.js / Android / iOS / Offensive security): 6. Familiar (Ruby / Swift / Object-oriented design): 7. Object-oriented design 8. Swift 4 | |  |
| **5** | **Professional Certifications (PC)** | **Audit Weight: 0.10** | **10** |
|  | 1. Professional Certifications (minimum 5 certificates): 2. DBMS – NPTEL 3. Explore Machine Learning using Python - Infosys Springboard 4. React JS - Infosys Springboard 5. Introduction to R Programming – Udemy 6. Vibe Coding – Sololearn 7. SQL - Hacker rank | |  |
| **6** | **Technical Projects (TP)** | **Audit Weightage: 0.10** | **10** |
|  | 1. Mentoring students in High impact practices (HIPs) 2. Mentoring students in Technology innovation and product support (TIPS) 3. Mentoring students in Vertically integrated projects (VIPs) 4. Mentoring students in Projects in community services (PICS) 5. Mentoring students in Capstone projects   Note: minimum any 1 project listed above | |  |