# MAD REPORT CARD

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# <<Quiz: >>

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| Continuous Assessment Theory (CAT) - Quiz 1 (CO1 & CO2) | 4 Mark |
| One Quiz (or) All google badge |  |

# <<Google badge with Date:>>

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| Continuous Assessment Theory (CAT) - Assignment (CO2) | 6 Marks |
| One workshop on a new technology = Installation + Intro + 5 programs (or) 1 app |  |

<<Technology Title: >>

<<Remarks:>>

# <<Project Title: >> Skin Disease and Cancer detection

<Team Number: >> 32

<<Student name:>> **Sivaraj Kumar S**

<<Register Number:>> **[CB.EN.U4CSE21457]**

<<Student name:>> **Hidesh Balaji C U**

<<Register Number:>> **[CB.EN.U4CSE21320]**

# <<Base paper that supports your proposed project>> [Submitted: Y / N] - YES

1. <<Title and DOI of the paper>> A machine learning-based, decision support, mobile phone application for diagnosis of common dermatological diseases R. Pangti,1 J.Mathur,2 [5th August 2020]

1. <<Title and DOI of the paper>> Bacterial skin and soft tissue infections in adults: A review of their epidemiology, pathogenesis, diagnosis, treatment and site of care Vincent Ki MD1, Coleman Rotstein MD FRCPC2, [2nd March 2008]

1. <<Title and DOI of the paper>> Skin Cancer Detection Using Deep Learning—A Review [13th June 2023]

# <<Problem you are trying to solve and their significance>> [300 – 500 words only]

**Imagine a world where checking your skin for potential health issues is as easy as snapping a selfie. That's the dream we're chasing with our new mobile app for skin disease and cancer detection. We all know someone who's been affected by skin cancer, or maybe we've worried about that odd mole ourselves. But let's face it – getting to a dermatologist isn't always quick or easy.**

**This app is our way of putting a bit of peace of mind in everyone's pocket. Think of it as a friendly, accessible first step – not replacing doctors, but helping you decide if you need to see one. It's especially exciting for folks in rural areas or countries where specialists are few and far between.**

**We're not just talking about convenience here – this could be a real lifesaver. Catching skin cancer early can make all the difference, and this app could help people spot trouble before it's too late. Plus, it'll take some pressure off our overworked doctors, letting them focus on the patients who need them most.**

**But it's not all serious business. Using the app can be a bit like a learning game, teaching us what to look out for on our skin. It's about empowering people to take charge of their health, one selfie at a time.**

**Of course, creating this app isn't a walk in the park. We've got to make sure it works for all skin types, doesn't cause unnecessary panic, and jumps through all the right legal hoops. But when we think about the lives we could improve or even save, it makes all the hard work worth it.**

**In the end, this app is about more than just technology – it's about looking out for each other and making sure everyone has a shot at staying healthy, no matter where they live or how much money they have. It's a big dream, but we think it's one worth chasing.**

<<Dataset used for the Lab evaluation>>

[url: ] [**https://www.kaggle.com/datasets/kmader/skin-cancer-mnist-ham10000?select=HAM10000\_metadata.csv**](https://www.kaggle.com/datasets/kmader/skin-cancer-mnist-ham10000?select=HAM10000_metadata.csv)

[gitrepo:] [**https://github.com/ptschandl/HAM10000\_dataset**](https://github.com/ptschandl/HAM10000_dataset)

# <<Lab Evaluation 1>>

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| Continuous Assessment Lab (CAL) - Lab Eval 1 (CO3 & CO4) | 10 Marks |
| Mobile + Tensor lite ML (2 model) + 5 page report = 1 table + 2 figure + 2 graph |  |
| <<Mobile App progress -10%>> [ \_\_ marks]  << Technology relevant with Mobile applications lab eval: 1 table>> [ \_\_ marks]  <<Existing Model: 1 figure>> [ \_\_ marks]  <<Experiment: Training and Testing>> [ \_\_ marks]  <<Results: At least 2 graph with suitable metrics>> [ \_\_ marks]  <<Remark>>  <<Document submitted / uploaded>>  **<<Lab Evaluation 2>>** |  |
| Continuous Assessment Lab (CAL) - Lab Eval 2 (CO3 & CO4) | 10 Marks |
| Mobile + 1 new model + 5-page report = 1 table + 2 figure + 2 graph |  |
| <<Mobile App progress -10 - 50%>> [ \_\_ marks]  << Compare your project to similar (or) relevant app: 1 table>> [ \_\_ marks]  <<New Model: 1 figure>> [ \_\_ marks]  <<Experiment: Training and Testing>> [ \_\_ marks]  <<Results: At least 2 graph with suitable metrics>> [ \_\_ marks]  <<Remarks>>  <<Document submitted / uploaded>>  **<<Final Evaluation>>** |  |
| Continuous Assessment Lab (CAL) - Project (CO3 - CO5) | 10 Marks |
| 5-page Presentation + 5 page report = 1 table + 2 figure + 2 graph |  |

<<Mobile App progress -50- 100%>> [ \_\_ marks]

<< Compare all the models: 1 table>> [ \_\_ marks]

<<Application Architecture: 1 figure>> [ \_\_ marks]

<<Experiment: Training and Testing>> [ \_\_ marks]

<<Results: At least 2 graph with suitable metrics>> [ \_\_ marks]

<<Remarks>>

<<Document submitted / uploaded>> SUBMITTED AND UPLOADED

# <<Continuous Lab Evaluation>>

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| Continuous Assessment Lab (CAL) - Android Certification from Google (CO1 - CO5) | 10 Marks |
| Badges + Certification = FULL marks if certificate submitted on time |  |
| << Title: >>  <<Remarks: Attach certificate>>                              **<<Midterm Evaluation>>** |  |
| Mid Term (CO1- CO4) | 20 Marks |
| 20 theory (4 x 5 marks questions) + 30 lab program (2 x 15 marks question = 5 code + 5 output + 5 viva) |  |
| **<<End semester Evaluation>>** |  |
| End Semester Exam (CO1- CO5) | 30 Marks |
| 40 theory (4 x 8 marks questions) + 60 lab program (2 x 30 marks question = 10 code + 10 output + 10 viva) |  |