# Model Development Phase Template

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| Date | 16 June 2025 |
| Team Lead Name | Jayanth Srinivas Bommisetty |
| Project Title | Sloan Digital Sky Survey (SDSS) galaxy classification using machine learning |
| Maximum Marks | 5 Marks |

**Feature Selection Report Template**

As it is an image classification task, raw pixel data was used as features. No manual feature engineering was needed. But as we classified the images into specific classes, they are considered as labels or primary feature.

| Feature | Description | Selected (Yes/No) | Reasoning |
|---|---|---|---|
| Galaxy Classes | [<br><br>'Cigar-shaped smooth',<br><br>'In between smooth',<br><br>'completely round smooth',<br><br>'edge-on', 'spiral'<br><br>] | Yes | Labelled for identifying the type of galaxy the image is describing. |