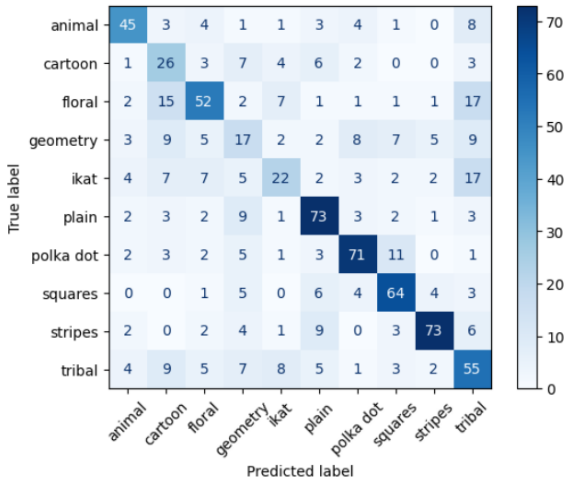


PATTERN SENSE: CLASSIFYING FABRIC PATTERNS USING DEEP LEARNING

Project Development Phase
Model Performance Test

Date	27 June 2025
Team ID	LTVIP2025TMID59820
Project Name	Pattern Sense: Classifying Fabric Patterns using Deep Learning
Maximum Marks	10 Marks

Model Performance Testing:

S.No.	Parameter	Values	Screenshot																																																																						
1.	Metrics	Classification Model: Confusion Matrix -, Accuracy Score- & Classification Report -	<div>Confusion Matrix</div> <div><div>133/13331s 151ms/step - accuracy: 0.8008 - loss: 0.6740</div><div>Final Accuracy on full dataset: 83.48%</div></div> <div><div>Confusion Matrix</div></div> <div>Classification Report</div> <div><div>Classification Report:</div><table><thead><tr><th></th><th>precision</th><th>recall</th><th>f1-score</th><th>support</th></tr></thead><tbody><tr><td>animal</td><td>0.69</td><td>0.64</td><td>0.67</td><td>70</td></tr><tr><td>cartoon</td><td>0.35</td><td>0.50</td><td>0.41</td><td>52</td></tr><tr><td>floral</td><td>0.63</td><td>0.53</td><td>0.57</td><td>99</td></tr><tr><td>geometry</td><td>0.27</td><td>0.25</td><td>0.26</td><td>67</td></tr><tr><td>ikat</td><td>0.47</td><td>0.31</td><td>0.37</td><td>71</td></tr><tr><td>plain</td><td>0.66</td><td>0.74</td><td>0.70</td><td>99</td></tr><tr><td>polka dot</td><td>0.73</td><td>0.72</td><td>0.72</td><td>99</td></tr><tr><td>squares</td><td>0.68</td><td>0.74</td><td>0.71</td><td>87</td></tr><tr><td>stripes</td><td>0.83</td><td>0.73</td><td>0.78</td><td>100</td></tr><tr><td>tribal</td><td>0.45</td><td>0.56</td><td>0.50</td><td>99</td></tr><tr><td>accuracy</td><td></td><td></td><td>0.59</td><td>843</td></tr><tr><td>macro avg</td><td>0.58</td><td>0.57</td><td>0.57</td><td>843</td></tr><tr><td>weighted avg</td><td>0.60</td><td>0.59</td><td>0.59</td><td>843</td></tr></tbody></table></div>		precision	recall	f1-score	support	animal	0.69	0.64	0.67	70	cartoon	0.35	0.50	0.41	52	floral	0.63	0.53	0.57	99	geometry	0.27	0.25	0.26	67	ikat	0.47	0.31	0.37	71	plain	0.66	0.74	0.70	99	polka dot	0.73	0.72	0.72	99	squares	0.68	0.74	0.71	87	stripes	0.83	0.73	0.78	100	tribal	0.45	0.56	0.50	99	accuracy			0.59	843	macro avg	0.58	0.57	0.57	843	weighted avg	0.60	0.59	0.59	843
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