

**CS 203: Software Tools & Techniques for AI**  
**IIT Gandhinagar**  
**Sem-II - 2024-25**

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**Assignment 11**

**Team Members: Het Pathak(22110186)**

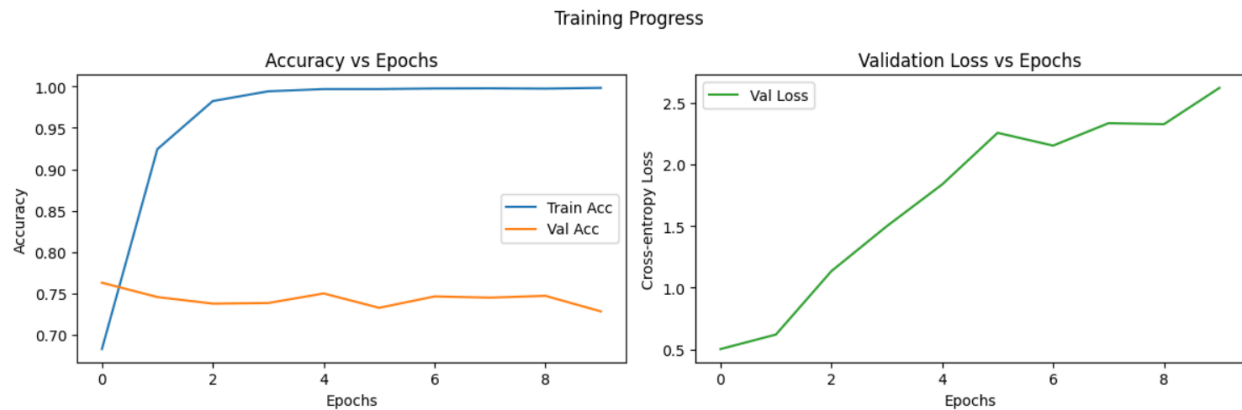
**Shivrajsinh Bhosale(22110048)**

- **GitHub repository:** [Team 3](#)
- **Runtime Details and Results:**

**Sizes:-** Train: (5536, 2) Val: (1384, 2) Test: (1821, 2)

After applying CountVectorizer (10k features): **X\_train shape:** (5536, 10000)

**Trainable Parameters:** 5293122



CS203\_Lab11\_Team3.ipynb
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File Edit View Insert Runtime Tools Help

Q Commands
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Files

Analyze your files with code written by Gemini
Upload

<>

{x}

sample\_data

Half.pt

Original.pt

checkpoint.pt

quant\_model.pt

```

correct += (out.argmax(1) == y).sum().item()
total += y.size(0)

end = time.time()
size_mb = os.path.getsize(f"{name}.pt") / 1e6
print(f"{name:<12} | Accuracy: {100*correct/total:6.2f}% | Time: {(e
return 100*correct/total, (end-start)*1000, size_mb

torch.save(model.state_dict(), "Original.pt")

evaluate(model, "Original")
evaluate(quant_model, "quant_model")
evaluate(half_model, "Half", half=True)

```

Original
quant\_model
Half

| Accuracy: 79.52%
| Accuracy: 79.52%
| Accuracy: 79.52%

| Time: 451.98 ms
| Time: 284.73 ms
| Time: 1793.65 ms

| Size: 21.18 MB
| Size: 5.30 MB
| Size: 10.59 MB

(79.51674903898957, 1793.6513423919678, 10.589454)

Saved models and final results