# Analyse BERT

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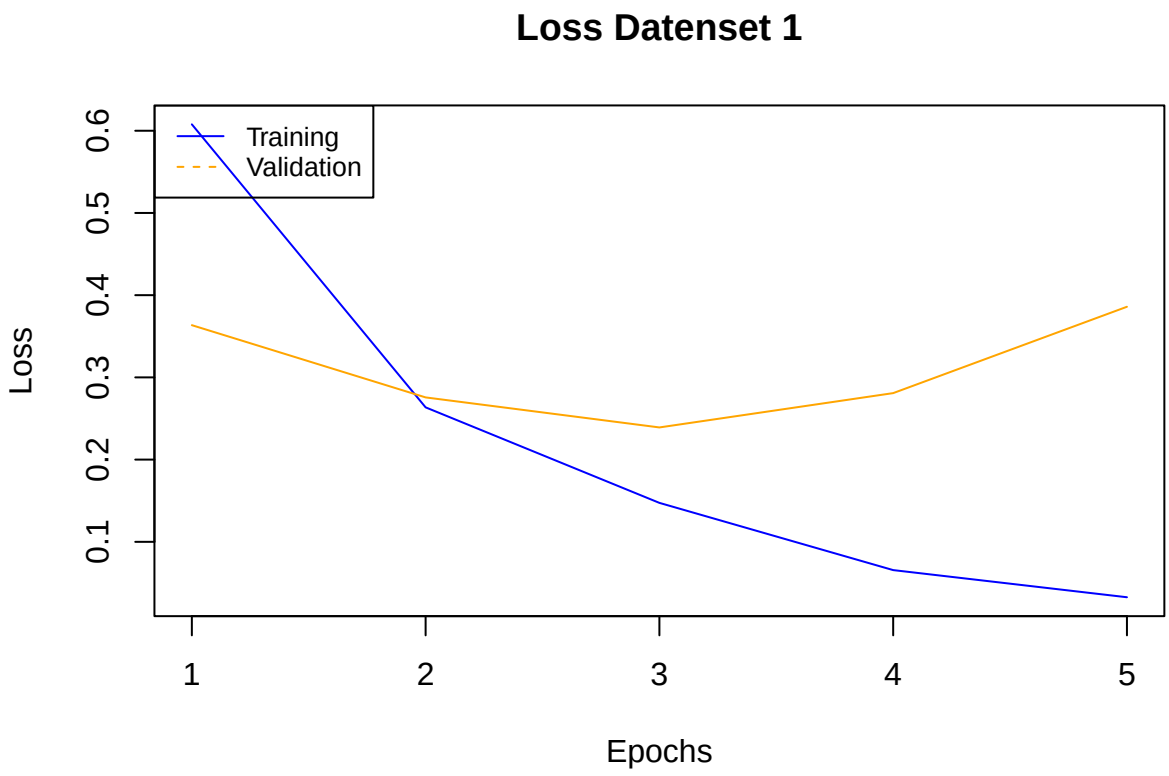
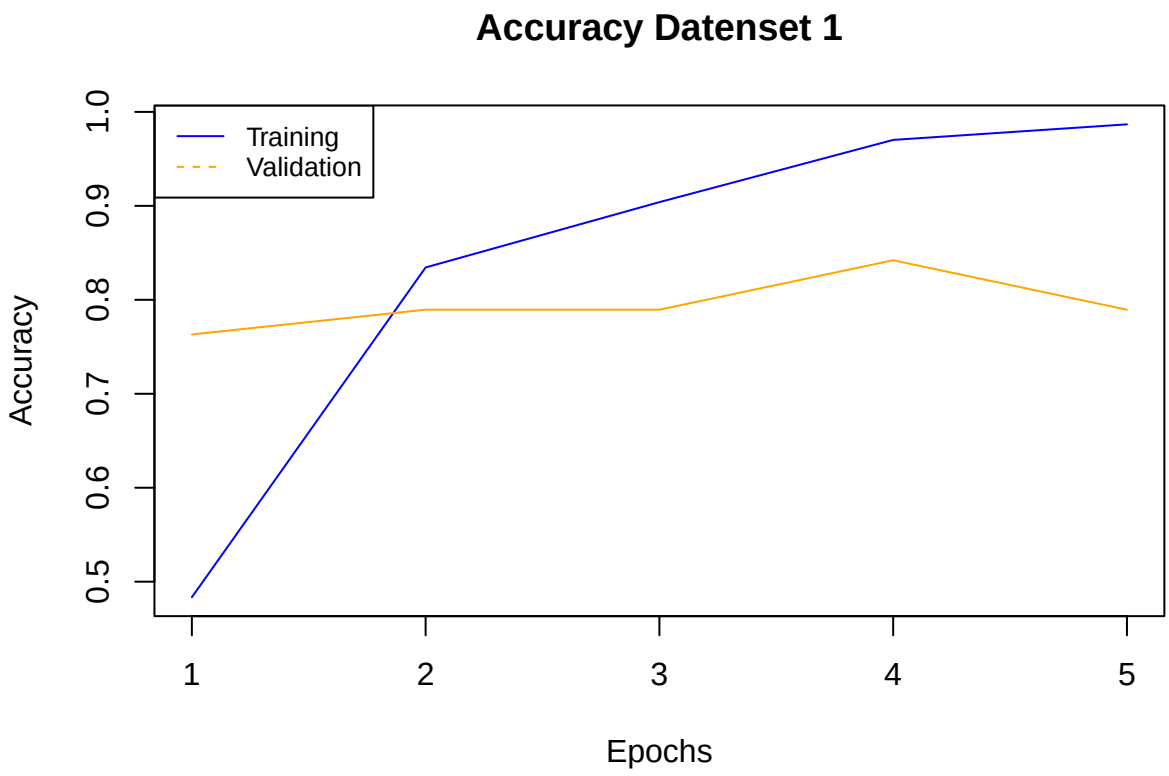
## Analyse Datenset 1

```
loss_tr <- c(0.6077831, 0.26356995, 0.14737834, 0.06560055, 0.0325946)
acc_tr <- c(0.48344371, 0.83443709, 0.90397351, 0.97019868, 0.98675497)
loss_val <- c(0.36352589, 0.2756484, 0.23913771, 0.28088699, 0.38590452)
acc_val <- c(0.76315789, 0.78947368, 0.78947368, 0.84210526, 0.78947368)
x <- c(1,2,3,4,5)
```

```
# Create a first line
plot(x, loss_tr, type = "l", frame = TRUE, pch = 19,
     col = "blue", xlab = "Epochs", ylab = "Loss")
# Add a second line
lines(x, loss_val, type = "l", pch = 18, col = "orange")
# Add a legend to the plot
legend("topleft", legend=c("Training", "Validation"),
       col=c("blue", "orange"), lty=1:2, cex=0.8)
title(main = "Loss Datenset 1", sub = NULL)
```



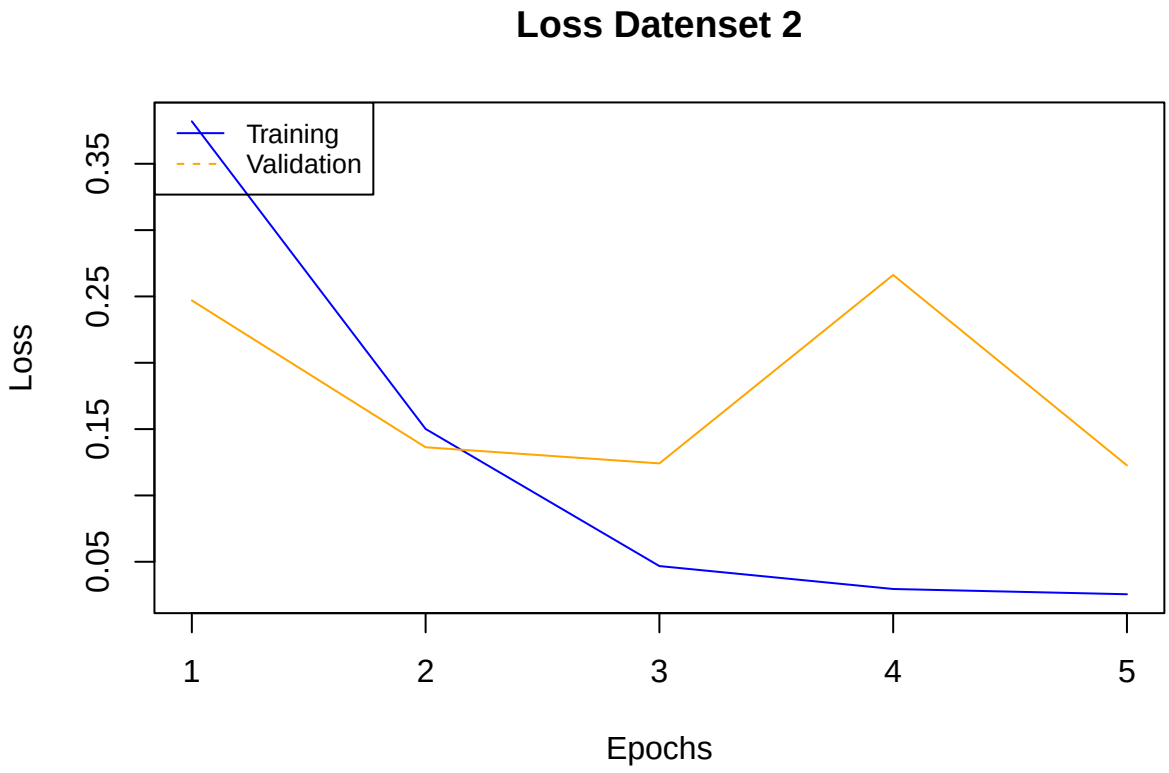

```
# Create a first line
plot(x, acc_tr, type = "l", frame = TRUE, pch = 19,
     col = "blue", xlab = "Epochs", ylab = "Accuracy")
# Add a second line
lines(x, acc_val, type = "l", pch = 18, col = "orange")
# Add a legend to the plot
legend("topleft", legend=c("Training", "Validation"),
       col=c("blue", "orange"), lty=1:2, cex=0.8)
title(main = "Accuracy Datenset 1", sub = NULL)
```



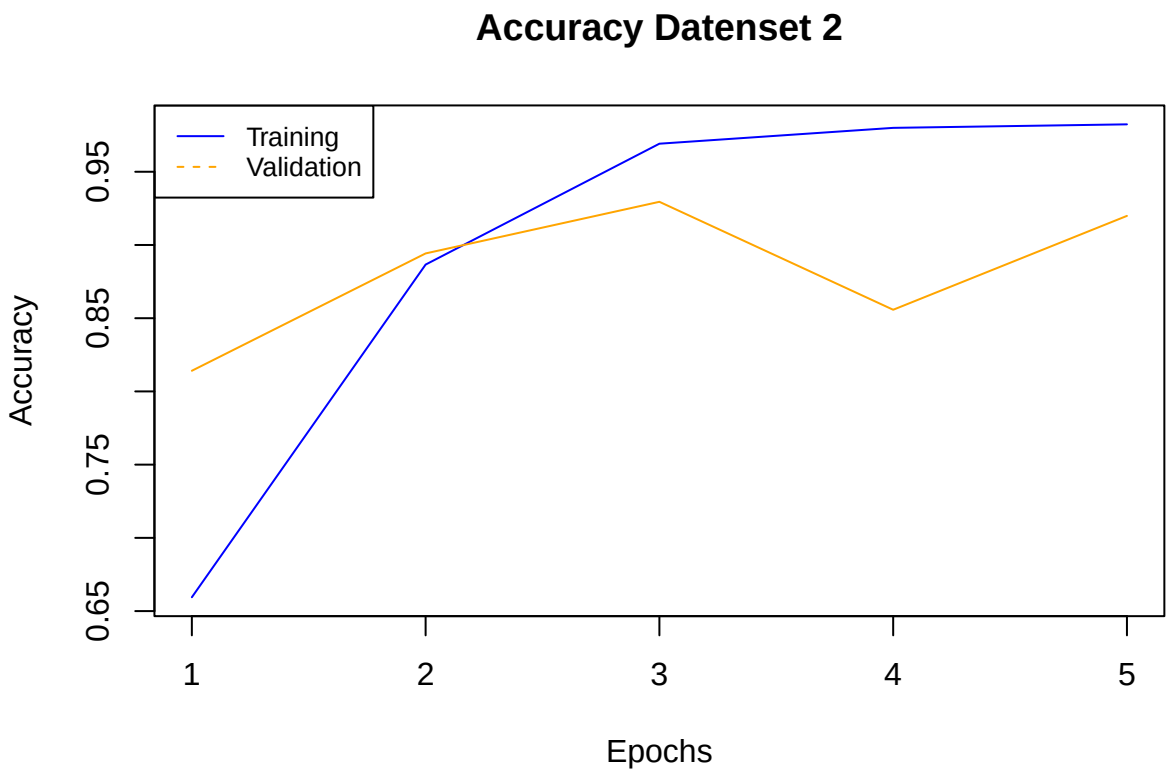

## Analyse Datenset 2

```
loss_tr <- c(0.38197518, 0.15011828, 0.04676881, 0.02947498, 0.02552669)
acc_tr <- c(0.65945513, 0.88661859, 0.96915064, 0.97996795, 0.98237179)
loss_val <- c(0.24697133, 0.13631317, 0.12414584, 0.26618652, 0.12264567)
acc_val <- c(0.81410256, 0.89423077, 0.92948718, 0.85576923, 0.91987179)
x <- c(1,2,3,4,5)
```

```
# Create a first line
plot(x, loss_tr, type = "l", frame = TRUE, pch = 19,
     col = "blue", xlab = "Epochs", ylab = "Loss")
# Add a second line
lines(x, loss_val, type = "l", pch = 18, col = "orange")
# Add a legend to the plot
legend("topleft", legend=c("Training", "Validation"),
       col=c("blue", "orange"), lty=1:2, cex=0.8)
title(main = "Loss Datenset 2", sub = NULL)
```



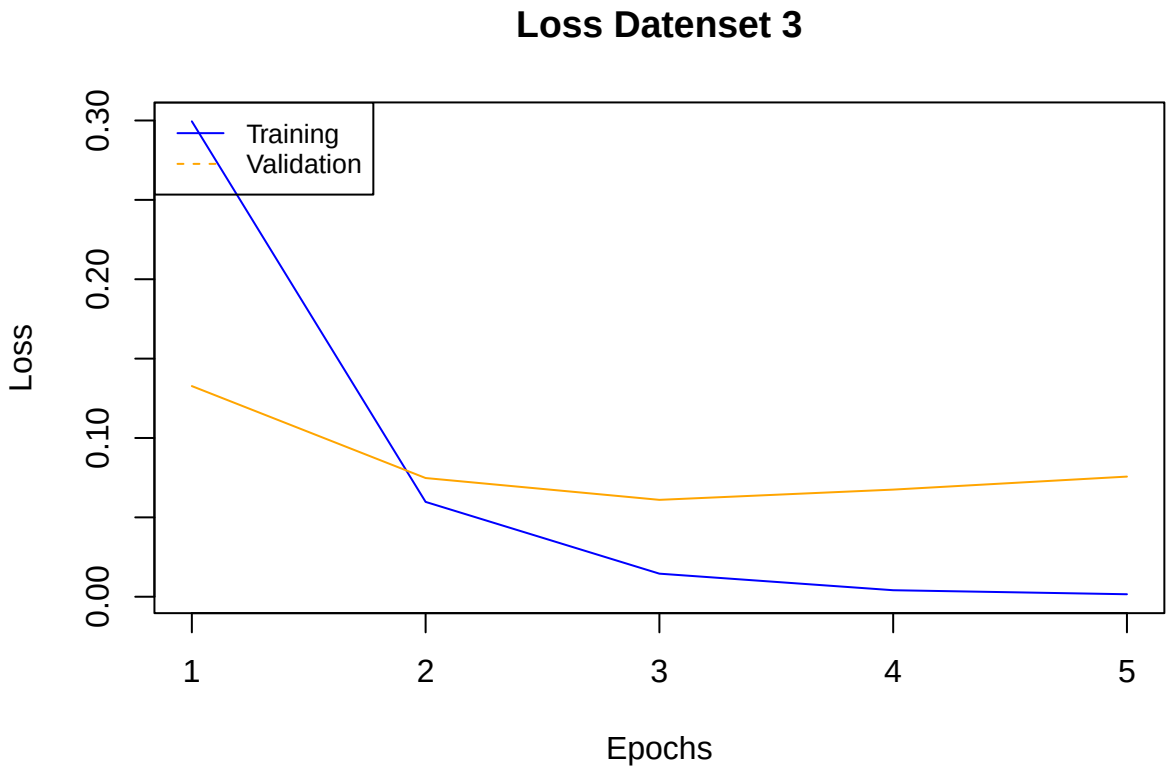

```
# Create a first line
plot(x, acc_tr, type = "l", frame = TRUE, pch = 19,
     col = "blue", xlab = "Epochs", ylab = "Accuracy")
# Add a second line
lines(x, acc_val, type = "l", pch = 18, col = "orange")
# Add a legend to the plot
legend("topleft", legend=c("Training", "Validation"),
       col=c("blue", "orange"), lty=1:2, cex=0.8)
title(main = "Accuracy Datenset 2", sub = NULL)
```



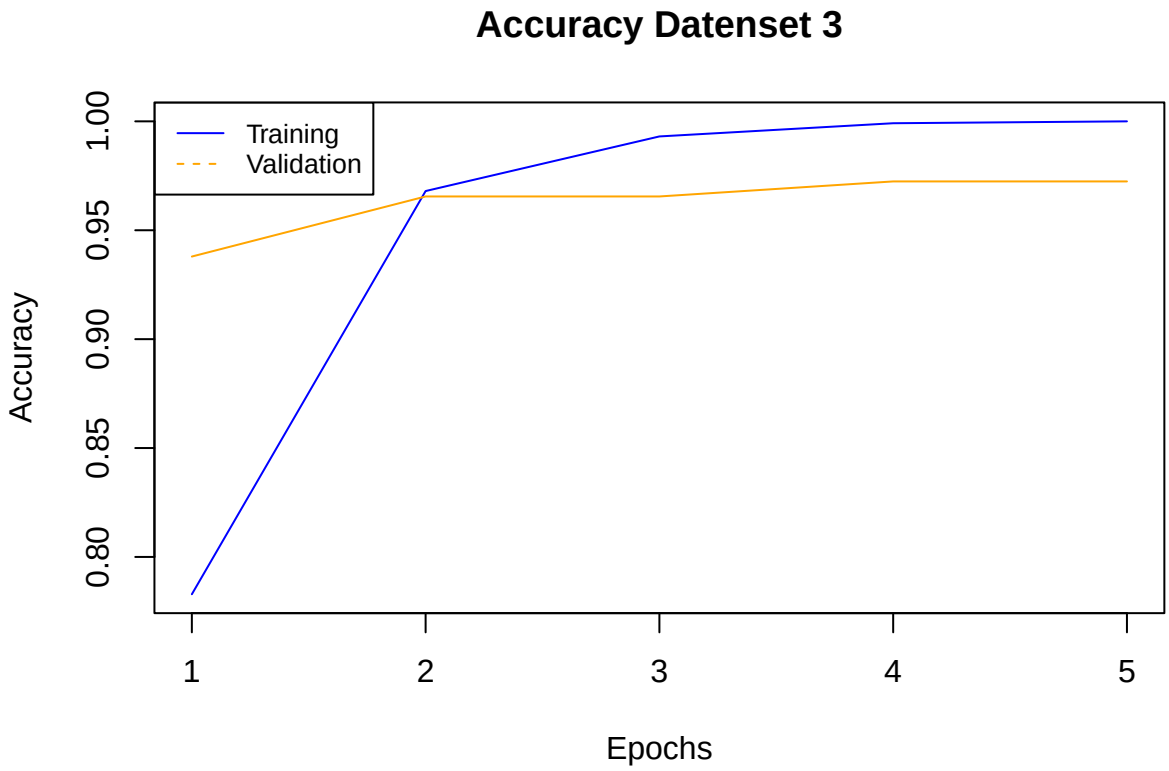

## Analyse Datenset 3

```
loss_tr <- c(0.29946331, 0.0597464, 0.0145295, 0.00410857, 0.00157379)
acc_tr <- c(0.78287197, 0.96799308, 0.99307958, 0.99913495, 1. )
loss_val <- c(0.13269771, 0.07477671, 0.06103931, 0.06747813, 0.07568188)
acc_val <- c(0.93793103, 0.96551724, 0.96551724, 0.97241379, 0.97241379)
x <- c(1,2,3,4,5)
```

```
# Create a first line
plot(x, loss_tr, type = "l", frame = TRUE, pch = 19,
     col = "blue", xlab = "Epochs", ylab = "Loss")
# Add a second line
lines(x, loss_val, type = "l", pch = 18, col = "orange")
# Add a legend to the plot
legend("topleft", legend=c("Training", "Validation"),
       col=c("blue", "orange"), lty=1:2, cex=0.8)
title(main = "Loss Datenset 3", sub = NULL)
```




```
# Create a first line
plot(x, acc_tr, type = "l", frame = TRUE, pch = 19,
     col = "blue", xlab = "Epochs", ylab = "Accuracy")
# Add a second line
lines(x, acc_val, type = "l", pch = 18, col = "orange")
# Add a legend to the plot
legend("topleft", legend=c("Training", "Validation"),
       col=c("blue", "orange"), lty=1:2, cex=0.8)
title(main = "Accuracy Datenset 3", sub = NULL)
```


Accuracy Datenset 3
Training
Validation
Accuracy
1.00
0.95
0.90
0.85
0.80
1
2
3
4
5
Epochs