**MODELS**

What to try:

* ATTNN paper….

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| **#** | **Dataset** | **Acc** | **Bias** | **Var** | **Params** | **Network** | **LR** | **OPT** | **Reg** | **batchS** | **Comments** | **File** |
| 1 | 10 cmd  10k-1k-1k  40mfcc +delta | 0.771 | 0 | 0.227 | 1,465,226 | LeNet5 con elu | / | Nadam | / | 32 | 0 Bias  High Variance  Overfitting |  |
| 2 | 10 cmd  10k-1k-1k  40mfcc +delta | 0.687 | 0.013 | 0.333 | 123,542 | LeNet5 con elu  Senza i 2 FC layers | / | Nadam | / | 32 | 0 Bias  High Variance  Overfitting |  |
| 3 | 10 cmd  10k-1k-1k  40mfcc +delta | 0.656 | 0 | 0.358 | 123,630 | LeNet5 con elu  Senza i 2 FC layers  Con Batch Norm | / | Nadam | / | 32 | Peggio del 2 | 2020-07-19\_15-13\_LeNet5-elu-1FC-BN |
| 4 | 10 cmd  10k-1k-1k  40mfcc +delta | 0.691 | 0.002 | 0.312 | 123,542 | LeNet5 con elu  Senza i 2 FC layers  Regolariz | / | Nadam | L2  1e-4 | 32 | Leggermente meglio del 2  Overfitting | 2020-07-19\_15-36\_LeNet5-elu-1FC-Reg |
| 5 | 10 cmd  10k-1k-1k  40mfcc +delta | 0.707 | 0.081 | 0.235 | 123,542 | LeNet5 con elu  Senza i 2 FC layers  Regolariz | / | Nadam | L2  1e-3 | 32 | Some Bias  High Variance  Leggermente meglio del 2 e 3  Overfitting | 2020-07-19\_15-44\_LeNet5-elu-1FC-Reg |
| 6 | 10 cmd  10k-1k-1k  40mfcc +delta | 0.796 | 0 | 0.223 | 1,455,422 | LeNet5 con elu  Con FC 120  Regolariz | / | Nadam | L2  1e-3 | 32 | 0 Bias  High Variance  Meglio dei precedenti  Overfitting | 2020-07-19\_16-02\_LeNet5-elu-2FC-Reg |
| 7 | 10 cmd  10k-1k-1k  40mfcc +delta | 0.796 | 0 | 0.223 | 1,455,422 | LeNet5 con elu  Con FC 120  Regolariz | / | Nadam | L2  1e-2 | 32 | Cambiato nulla dal 6 | 2020-07-19\_16-44\_LeNet5-elu-2FC-Reg |
| 8 | 10 cmd  10k-1k-1k  12mfcc +delta | 0.757 | 0 | 0.254 | 224,341 | ATTNETWORK paper | / | Nadam | / | 32 | 0 Bias  High Variance  Overfitting | 2020-07-19\_18-07\_AttRNNSpeechModel |
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