



**CosmiCode**

Educating the Next Wave of Tech Pioneers.

# Week 3 Tasks

## Week 3: Recurrent Neural Networks (RNNs)

- Introduction to RNNs: Understand the basics of RNNs and implement a simple RNN from scratch.
- Building RNNs: Create an RNN using Keras for time series prediction or text generation.
- Long Short-Term Memory (LSTM): Implement an LSTM network for a sequence modeling task.
- Gated Recurrent Units (GRU): Compare the performance of LSTM and GRU networks on a chosen task.
- Evaluation and Tuning: Evaluate the RNN models, tune hyperparameters, and visualize the results.



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