

TECHNICAL CONTRIBUTIONS [DRAFT]

**TIME SERIES FORECASTING OF MONTHLY ACTIVE
USERS WITH LONG SHORT-TERM MEMORY NETWORKS**

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1 Introduction

1.1 Motivation

1.2 Goal

Some goals: - Automate model - Read products from dataset automatically -

2 Object-Oriented Abstraction

2.1 Decomposition

2.2 Encapsulation

3 Hyperparameter Optimization

3.1 Cross-validation

3.2 Grid Search

3.3 Results

4 Systems Engineering

4.1 Server Infrastructure

4.2 Distributed Task Queue

4.3 Forecast Visualization

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5 Next Steps

5.1 Data Pipeline Automation (Apache Hadoop)

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