

- torchapp: A wrapper for fastai projects to create easy
- ² command-line inferfaces and manage hyper-parameter
- ₃ tuning.
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Software

- Review 🗗
- Repository 🗗
- Archive ♂

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Summary

torchapp is a tool for jumpstarting the creation of deep learning projects with fastai (info11020108?), (J. Howard & Gugger 2020) and allows for easy command-line interfaces and hyper-parameter tuning.

Statement of need

fastai allows for simple creation of world-class deep learning models. Designed for an interactive notebook environment.

Most machine learning models never go into production [https://venturebeat.com/2019/07/19/why-do-87-of-data-science-projects-never-make-it-into-production/]

Typer

App Development

17 (Jeremy Howard & Gugger, 2020)

Experiment Tracking and Hyper-parameter Tuning

Already integration with W&B and fastai. Weights and Biases (Biewald, 2020)

Droject Generation

21 Cookiecutter. Testing and documentation

Acknowledgements

23 References

- Biewald, L. (2020). Experiment tracking with weights and biases. https://www.wandb.com/
- ²⁵ Howard, J., & Gugger, S. (2020). Deep Learning for Coders with Fastai and Pytorch: AI
- Applications Without a PhD. O'Reilly Media, Incorporated. ISBN: 9781492045526



Howard, Jeremy, & Gugger, S. (2020). Fastai: A Layered API for Deep Learning. Information, 11(2). https://doi.org/10.3390/info11020108

