

New Joiners Guide – Interns/New Grads

Welcome to the Lazard Data Analytics Group (LDAG)! We're excited to have you join us.

This guide is a series of topics we recommend to our incoming interns and new grads. These topics have been chosen based on ongoing projects in LDAG, however, it is not intended to replace continued learning after joining our team. Please don't hesitate to reach out if you have any questions or if there's anything you'd like to discuss!

MATERIAL FOR EVERYONE

Technical

- Git: https://docs.gitlab.com/ee/topics/gitlab_flow.html
- Coding Best Practices: <https://www.python.org/dev/peps/pep-0008/>
- PyCharm IDE: <https://www.jetbrains.com/help/pycharm/creating-and-running-your-first-python-project.html>
- Conda Python environments:
https://docs.conda.io/projects/conda/en/4.6.0/_downloads/52a95608c49671267e40c689e0bc00ca/conda-cheatsheet.pdf

Finance and Investment Banking

- Investment Banking 101: Structure, Services, and Skills: <https://learn.q2.com/investment-banking>
- Mergers Acquisitions M&A Process: <https://corporatefinanceinstitute.com/resources/knowledge/deals/mergers-acquisitions-ma-process/>
- Lazard Earnings Call Presentations: <https://lazardltd.gcs-web.com/events-and-presentations>
- [Optional] How the Economic Machine Works by Ray Dalio: <https://www.youtube.com/watch?v=PHe0bXAluk0>

Useful Python Packages

- Database (MySQL, PostgreSQL): sqlalchemy, mysqlclient, psycopg2
- Cloud Data Storage (Azure): azure-storage-blob
- Unit Tests: pytest, coverage

MATERIAL FOR DATA SCIENTISTS

Technical

- An Introduction to Statistical Learning (G. James, D. Witten, T. Hastie, R. Tibshirani)
 - o https://hastie.su.domains/ISLR2/ISLRv2_website.pdf
- Natural Language Processing with Python (S. Bird, E. Klein, and E. Loper)
 - o <https://www.nltk.org/book/>
- [Optional] Advances in Financial Machine Learning (Marcos Lopez de Prado)
- [Optional] Time Series Analysis and its Applications (R. Shumway, D. Stoffer)
- [Optional] Introduction to Econometrics (J. Stock, M. Watson)

Finance and Investment Banking

- **Excel Shortcuts:** <https://www.wallstreetprep.com/knowledge/excel-shortcuts/>
- [Optional] Accounting 101: <https://blog.hubspot.com/sales/accounting-101>
- [Optional] Company Valuation: <https://corporatefinanceinstitute.com/resources/knowledge/valuation/valuation-methods/>
- [Optional] Financial Modeling: <https://corporatefinanceinstitute.com/resources/knowledge/modeling/what-is-financial-modeling/>
- [Accessed after on board] C:\BoxShare\Box\LDAG\Training\New Joiners Materials\TTS Accounting Textbook 2020.pdf
- [Accessed after on board] C:\BoxShare\Box\LDAG\Training\New Joiners Materials\TTS Valuation Textbook 2020.pdf
- [Accessed after on board] C:\BoxShare\Box\LDAG\Training\New Joiners Materials\TTS Financial Modelling Textbook 2020.pdf

Useful Python Packages

- Scraping/API: requests, beautifulsoup4, selenium
- Data Wrangling: numpy, pandas, tqdm
- Modelling: scikit-learn, statsmodels, optuna, tensorflow/pytorch
- Visualization: seaborn, plotly
- NLP: nltk, re
- Dashboards: streamlit

MATERIAL FOR DEVELOPERS

- Software Development Life Cycle: https://www.tutorialspoint.com/sdlc/sdlc_overview.htm
- DevOps and CI/CD

Front-End

- Vue: <https://vuejs.org/tutorial/#step-1>
- Website development basics: https://developer.mozilla.org/en-US/docs/Learn/Getting_started_with_the_web

Back-End

- Prefect: <https://docs.prefect.io/core/>
- Linux command basics: <https://ubuntu.com/tutorials/command-line-for-beginners#1-overview>