Nicholas Abad

PhD Student (Applied Bioinformatics) @ DKFZ
Data Science Bootcamp Instructor @ CodeOp

Technical Skills

Python
95%

Machine Learning
80%

Software Engineering
80%

Bioinformatics
70%

R
70%

Statistics
65%

Contact Information

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🌐 nicholas-abad.github.io
📍 Currently in Heidelberg, DE

Work Experience

December 2020 - Present (Expected Finish Date: June 2024)
DKFZ (German Cancer Research Center) / Heidelberg, Germany
PhD Student (Applied Bioinformatics)

- Create an easy-to-use and scalable bioinformatics/ML pipeline to characterize potentially-cancerous promoter mutations using genomic, transcriptomic, and epigenetic data
- Collaborate consistently with bioinformaticians, wetlab biologists and clinicians to integrate my findings into personalized oncology decisions
- Teach and plan multiple courses/seminars, such as Introduction to Python and ML in Bioinformatics, to university students
- Stay up-to-date in the newest trends in Machine Learning as well as learning about the inner workings of cancer biology, which is a completely new topic to me prior to my PhD

April 2022 - Present
CodeOp / Barcelona, Spain
Data Science Instructor (Part-time)

- Teach the basics of Python and Data Science to women and/or people of the LGBTQ+ community, who are heavily misrepresented in the tech community, in a safe and inclusive fashion
- Design and plan a 6-month intensive bootcamp to take the students from no coding experience to being able to tell entire stories from data collection all the way to model deployment and project presentation

January 2020 - December 2020
Alexander Thamm GmbH (D.S. Consultancy) / Cologne, Germany
Machine Learning Engineer

- Worked with customers to create and implement any/all parts of the data science process (i.e. data collection, pre-processing, analysis)
- Created from scratch our company's first ever product, which was a sales forecasting application, that implemented algorithms such as Prophet (Bayesian forecasting method), CNNs and RNNs

November 2018 - December 2019
fedger.io (start-up) / Cologne, Germany
Data Scientist / Machine Learning Engineer

- Build and improve upon our object detection architecture through the use of Keras and Tensorflow that was used within the hospitality industry
- Conduct code reviews of other data scientists and software engineers using style guides such as Flake8, PyDocstyle, and PEP8
- Query our database using SQL to get relevant data

Education

October 2017 - September 2018
Lancaster University / Lancaster, Lancashire, United Kingdom
Master of Science in Data Science (Statistics Specialism)

August 2012 - May 2016
University of San Francisco / San Francisco, California, U.S.A.
Bachelor of Science in Mathematics (Minor in Computer Sci.)