



Nico Van den Hooff, CPA

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Education

- **University of British Columbia** **Vancouver, BC**
Master's of Data Science 2021 – June 2022 (expected)
 - GPA: 4.33/4.33
 - Capstone project: Applying deep learning to Ring-imaging Cherenkov detector ("RICH") point cloud data for purposes of sub-atomic particle classification, in partnership with TRIUMF and CERN (starts May 2022).
 - Curriculum: Supervised and unsupervised learning, deep learning, software development, frequentist and Bayesian statistical inference, data visualization.
 - **Chartered Professional Accountants of Canada** **Vancouver, BC**
Professional Education Program 2015 – 2017
 - 2017 Canadian National Honour Roll (top 1% of students across Canada).
 - **British Columbia Institute of Technology** **Burnaby, BC**
Bachelor's in Accounting with Distinction 2012 – 2015
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Project Portfolio

- **Indoor Scene Detector:** Full stack computer vision application. Capable of classifying images of indoor scenes using tuned versions of ResNet, DenseNet, AlexNet, or a simple CNN with no transfer learning. Code base includes a CI/CD pipeline. Tech stack: Python (PyTorch, Captum, Flask), React, aws s3, Docker, Heroku and GitHub pages.
 - **Reddit Data Collector:** Python package that integrates with Reddit's API and allows a user to collect post and comment data for further analysis. Code base includes a CI pipeline. Tech stack: Python (pandas, PRAW, tqdm), PyPI.
 - **Exploratory GitHub Analysis:** Wrote [an article](#) for Towards Data Science on an exploratory analysis I performed with data collected via GitHub's API on popular machine learning repositories. Article was selected as an Editors' Pick. Tech stack: Python (NumPy, pandas, Altair, PyGitHub, geopy).
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Employment Experience

- **KPMG LLP** **Vancouver, BC**
Senior Accountant/Consultant 2018 – 2021
 - Performed consulting engagements for banking, wealth management, manufacturing, and real estate clients.
 - Managed the audit of one of the firms largest financial institution clients for three years (\$23B in assets). Led a team of 10-15 individuals each year and oversaw all project management. Spearheaded automation initiatives, improving the overall profitability of the engagement by at least 10% each year.
 - Held the role of "Digital Champion" within the financial institutions practice. Led initiatives on how to apply data visualization (PowerBI) and automation in client engagements.
 - Obtained the highest possible performance ranking of top 5% within peer group in final two years of employment.
 - Prepared reports on the findings of engagements and presented them to key stakeholders, including senior and executive level management.
 - Mentored multiple junior staff throughout their successful completion of the CPA program, including the final exam.
 - **Baker Tilly Canada (f.k.a. Wolrige Mahon LLP)** **Vancouver, BC**
Staff Accountant 2015 – 2018
 - Provided assurance and tax services to clients in the film and entertainment, media, and manufacturing industries.
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Core Skills

Programming languages: Python (advanced), SQL (proficient), R (proficient), Java (academic)

Python libraries: PyTorch, scikit-learn, NumPy, pandas, SciPy, Flask, Matplotlib, seaborn, pytest

Other technology: Git, Docker, PowerBI, L^AT_EX

Statistical learning: Deep learning (CNNs, ANNs), Supervised Learning (Linear/Generalized Linear Models, Support Vector Machines, Ensembles), Unsupervised Learning (PCA, DBSCAN, Clustering)

Soft skills: Team leadership, outstanding written and oral communication skills, meticulous attention to detail, self-motivated, comfortable working in a fast paced environment, excellent at working with minimal supervision.

Certifications

Amazon Web Services: AWS Certified Cloud Practitioner (expected completion May 2022)

Coursera: Deep Learning Specialization (DeepLearning.AI), Machine Learning (Stanford University)