

Moez Ali

(437) 988 4649, Toronto, CA

moez.ali@pycaret.org

www.moez.ai

SUMMARY

Innovator, Technologist, and a Data Scientist turned Product Manager with proven track record of building and scaling data products, platforms, and communities. Experienced in building and leading teams of data scientists, data engineers, and product managers. Strongly opinionated tech visionary and a thought partner to C-level leadership.

Moez Ali is an inventor and creator of PyCaret. PyCaret is an open-source, low-code, machine learning software. Ranked in top 1%, 8M+ downloads, 7K+ GitHub stars, 100+ contributors, and 1000+ citations.

Globally recognized personality for open-source work on PyCaret. Keynote speaker and top 10 most-read writer in the field of artificial intelligence. Teaching AI and ML courses at Cornell, NY and Queens University, CA. Currently building world's first hyper-focused Data and ML Platform.

EDUCATION

Master of Management Analytics

Smith School of Business, Queens University (Canada)

CPA, CMA, Ontario

Chartered Professional Accountants of Ontario (Canada)

ACMA, CGMA, UK

Chartered Institute of Management Accountants (UK)

Master of Economics

University of Karachi (Pakistan)

Bachelor of Commerce

University of Karachi (Pakistan)

TOOLS AND TECHNOLOGIES

- **Languages:** Python, R, SAS, SQL, DAX, Power Query, VBA
- **Visualization:** Power BI, Tableau, Qlik Sense, Data Studio, Spotfire, Looker, Plotly, Matplotlib, Seaborn, Shiny
- **Machine Learning:** NumPy, Pandas, scikit-learn, TensorFlow, PyTorch, PyCaret, Spark, AzureML, Databricks
- **Databases / ETL:** SQL, SSIS, SSAS, SSRS, Postgres SQL, Snowflake, Alteryx, KNIME, Dataflows
- **DevOps/MLOps:** GitHub, Azure DevOps, Flask, Streamlit, FastAPI, Docker, MLFlow, VS Code

- **Cloud Services:** Azure, AWS, GCP
- **Others:** PeopleSoft, Oracle, SAP, Salesforce, IBM Cognos, UiPath, Asana

Antuit.AI – Zebra Technologies company
Director Artificial Intelligence Product

Feb 2022 – Current
(12 months)

- Developed and executed successful Artificial Intelligence product strategy that resulted in significant revenue growth and market share expansion.
- Led cross-functional teams of AI product managers, designers, engineers, and data scientists to deliver innovative AI products on schedule and within budget.
- Collaborated with executive leadership team to align Artificial Intelligence product roadmap with company goals and priorities.
- Provided vision and leadership for creating and maintaining comprehensive AI product roadmaps and schedules, utilizing agile methodologies.
- Work closely with engineering, infrastructure and UI/UX, and PM's to bring ideas to life.
- Performed in-depth and continuing research to identify potential Artificial Intelligence use-cases in Retail and CPG industries and recommended leadership for new product ideas.
- Owns and drives the marketing strategy, go-to-market, and pricing strategy of AI products.
- Developed documentation and manuals for educating clients and internal delivery team of Artificial Intelligence used in the products to increase literacy.
- Oversaw the budget and resource allocation, ensuring that resources were utilized efficiently and effectively.
- Translated business requirements into features and user stories, collaborated with cross functional team to craft solutions/documentation and represent customer needs in product delivery.
- Conduct market research and gather customer feedback to drive AI product improvements and iterative product releases.
- Developed comprehensive project plans and coordinated with various managers and technical personnel during all project phases, from initial development through implementation.
- Analyzed economics of project plans and provided actionable feedback relating to cost benefit and return-on-investment standards.
- Anticipated details of future projects by communicating with stakeholders and staying informed on relevant trends and industry news.

Moneris Canada
Manager Data Science

Dec 2020 – Feb 2022
(14 months)

- Identify and recruit top data science talent and build a strong and diverse team within Finance organization reporting to CFO, from ground up.
- Provide suggestions for leadership training in AI to increase AI awareness and comprehension of AI's strategic value in fintech.
- Develop and own data science strategy and long-term roadmap of the company and advocate leadership for additional investments where needed.
- Responsible for enterprise-level machine learning and data science workload on cloud (1M+ machine learning / deep learning models in production).
- Identify data monetization opportunities and use-cases to build data products for

internal and external client use. (\$5M+ ARR in 2021).

- Represent the work of the team, demonstrating impact and disseminating learnings to senior non-technical leadership and cross functional groups.
- Partner with enterprise data platform to ensure that Data Science initiatives and analytical solutions are aligned with the enterprise technology roadmap.
- Facilitate collaborative relationships with cross functional partners to use Moneris data to understand opportunities and measure the health of Canadian economy and deliver impactful analyses.
- Continuously research and operationalize new and innovative data science solutions to generate business value.
- Own and maintain the ever evolving and complicated big data pipeline that powers all the ML solutions.
- Created and delivered training curriculum for senior leadership on the application and integration of Artificial Intelligence in business operations.
- Contributed to the development of a data-driven culture by providing training on AI technologies, Machine learning, and natural language processing.
- Facilitated training sessions for senior leadership to ensure the effective comprehension and utilization of AI in decision making and strategic planning.
- Stayed current with the latest developments and advancements in AI technology to ensure training materials were up to date.

PwC Canada

Jan 2019 – Dec 2020

Manager Advanced Analytics and Data Science

(23 months)

- Manage enterprise-wide data platform for PwC Canada and develop core engineering capabilities to manage scalable data pipelines, advanced analytical solutions, and machine learning capabilities.
- Provided technical leadership and oversight of design, infrastructure, and implementation of advanced analytics and data science projects.
- Identify opportunities for advanced analytics and machine learning to drive business value.
- Collaborate with business units and key stakeholders to identify opportunities to drive business value by leveraging advanced analytics and machine learning based solutions.
- Act as a global subject manager expert within the Data, Insights and Analytics group of PwC.
- Designed and implemented machine learning models driving significant business outcomes.
- Lead end-to-end design and implementation of machine learning and advanced data analytics solutions that drives measurable business outcomes.
- Provide technical leadership and oversight of solution design, infrastructure planning and deployment support, system integrations, data validation processes, and sustainability of technical solutions.
- Research and invent novel machine learning based solution to provide alternate revenue forecasting solutions.
- Drives innovation through the development of Data & AI products that can be leveraged across PwC.
- Developed instructional materials, including presentations and handouts, to provide a comprehensive understanding of AI technology and its potential use-cases in the business environment.
- Facilitated training sessions for senior leadership to ensure the effective comprehension and utilization of AI in decision making and strategic planning.

- Utilized real-world examples and case studies to demonstrate the practical application of AI in various business scenarios.
- Assessed the current understanding of AI among senior leadership and tailored training materials accordingly to meet their specific needs and skill levels.
- Stayed current with the latest developments and advancements in AI technology to ensure training materials were up to date.
- Developed training material for a wide range of industries and sectors, including finance, healthcare, retail, and manufacturing.
- Leveraged various training methods, such as hands-on workshops, online tutorials, and webinars, to deliver the training effectively.

PyCaret, Canada

**Apr 2020 – Current
(27 months)**

Creator and Author

- Ideated, designed, and developed PyCaret – an open-source, low-code, machine learning library in Python to democratize data science and machine learning.
- PyCaret has 8M+ downloads, is ranked in top 1% Python software, and has 7K+ stars on GitHub.
- Leading the overall strategy and long-term vision of PyCaret.
- Developed software manual and official documentation for the website, blog, and social media. Own all the content of PyCaret. More than 100K subscribers.
- Use PyCaret to demonstrate the potential AI use-cases in different industries. Use synthetic data to solve problems and publish research papers / white papers.
- Headhunted a strong team of 8 core contributors. In total 100+ contributors from 30 countries.
- Conduct ongoing research in space to always ensure PyCaret has a competitive position in the AI landscape.
- Use PyCaret to provide high-end consulting on “Implementing the first AI use-case” to various companies in different industries (healthcare, retail, edtech).
- Published 100+ blog in 2 years and presented at international conferences on the use and implementation of the software.
- Became World’s top 10 most read writer about Artificial Intelligence in 2021.

Queens University, Canada

**Apr 2021 – Current
(21 months)**

Adjunct Faculty – MMA865 - Big Data Analytics

- Taught graduate level course Big Data Analytics and NLP at Queens University.
- Developed and maintained course curriculum, syllabus, and instructional materials.
- Utilized various teaching methods such as lectures, hands-on lab sessions, group projects, and quizzes to enhance the learning experience.
- Assessed student performance through exams, quizzes, assignments, and projects.
- Provided individualized feedback and guidance to students to help them improve their understanding and skills.
- Mentored and advised students on research projects and independent studies.
- Collaborated with industry experts and professionals to provide real-world examples and case studies in the classroom.
- Stayed current with the latest developments and advancements in Big Data Analytics and Natural Language Processing to ensure course materials were up to date.

Queens University, Canada**Aug 2022 – Current****Adjunct Faculty – G-MMA865 - Big Data Analytics****(6 months)**

- Taught graduate level course Big Data Analytics and NLP at Queens University.
- Developed and maintained course curriculum, syllabus, and instructional materials.
- Utilized various teaching methods such as lectures, hands-on lab sessions, group projects, and quizzes to enhance the learning experience.
- Assessed student performance through exams, quizzes, assignments, and projects.
- Provided individualized feedback and guidance to students to help them improve their understanding and skills.
- Mentored and advised students on research projects and independent studies.
- Stayed current with the latest developments and advancements in Big Data Analytics and Natural Language Processing to ensure course materials were up to date.

Queens University, Canada**May 2022 – Jun 2022****Adjunct Faculty – GPGB 954 – AI for Business Leaders****(1 month)**

- Proposed and awarded to develop a course on “Artificial Intelligence for Business Leaders” that was offered across all the graduate programs of university (10+ degrees).
- The course becomes the highest enrolling course in the history of Queens University. More than 200 students enrolled for the course within 1 week of announcement.
- Develop curriculum targeted for leadership across many different industries to help build and enhance their AI literacy and understanding of strategic importance of AI.
- Develop and deliver content on foundational concepts of AI.
- Researched, developed, and delivered deep dive sessions into use-cases of AI across many different industries and business functions (Finance, Healthcare, Retail, Defense, Fashion, etc.)
- Utilized various teaching methods such as lectures, hands-on lab sessions, group projects, and quizzes to enhance the learning experience.

Queens University, Canada**Aug 2022 – Oct 2022****Instructor – Introduction to Python for Data Analysis****(3 months)**

- Designed and developed curriculum for course “Python for data analysis”. This course becomes the pre-requisite for all technical graduate programs at Queens that require Python.
- Utilized various teaching methods such as lectures, hands-on lab sessions, group projects, and quizzes to enhance the learning experience.
- Researched and designed curriculum to engage students with practical examples and use-cases of use of Python in Machine Learning and Artificial Intelligence.
- Collaborated with industry experts and professionals to provide real-world examples and case studies in the classroom.

Queens University, Canada**Aug 2020 – Jun 2021****Teaching Assistant – MMA, Predictive Modeling****(10 months)**

- Served as a Teaching Assistant for a Predictive Modeling course at Queens University.
- Assisted the instructor in the development and maintenance of course curriculum, syllabus, and instructional materials.
- Assisted with grading assignments, exams, and projects.

- Provided individualized feedback and guidance to students to help them improve their understanding and skills in predictive modeling.
- Stayed current with the latest developments and advancements in Predictive Modeling and Machine Learning.

Cornell University, USA

Oct 2021 – Current

Adjunct Faculty – MBA – Artificial Intelligence / Big Data

(15 months)

- Taught graduate level course Artificial Intelligence and Big Data Analytics at MBA programs at Cornell University.
- Developed and maintained course curriculum, syllabus, and instructional materials.
- Utilized various teaching methods such as lectures, hands-on lab sessions, group projects, and quizzes to enhance the learning experience.
- Assessed student performance through exams, quizzes, assignments, and projects.
- Provided individualized feedback and guidance to students to help them improve their understanding and skills.
- Mentored and advised students on research projects and independent studies.
- Stayed current with the latest developments and advancements in Big Data Analytics and Natural Language Processing to ensure course materials were up to date.

University Health Network, Toronto

Feb 2022 – Current

Instructor – DHA130 - AI and Machine Learning II

(12 months)

- Taught Artificial Intelligence and Machine Learning II course in Digital Health Program of UHN.
- Developed and maintained course curriculum, syllabus, and instructional materials.
- Utilized various teaching methods such as lectures, hands-on lab sessions, group projects, and quizzes to enhance the learning experience.
- Assessed student performance through exams, quizzes, assignments, and projects.
- Provided individualized feedback and guidance to students to help them improve their understanding and skills.
- Mentored and advised students on research projects and independent studies.

University of Regina

Mar 2022 – May 2022

Instructor – JSGS 843 – Data Science for Health

(2 months)

- Taught Data Science for Health course in graduate level Nursing and Digital Health program at University of Regina.
- Developed and maintained course curriculum, syllabus, and instructional materials.
- Utilized various teaching methods such as lectures, hands-on lab sessions, group projects, and quizzes to enhance the learning experience.
- Assessed student performance through exams, quizzes, assignments, and projects.
- Provided individualized feedback and guidance to students to help them improve their understanding and skills.
- Mentored and advised students on research projects and independent studies.

Kaplan Middle East

Sep 2021 – Jan 2022

Senior Faculty – Advanced Machine Learning

(5 months)

- Taught Advanced Machine Learning course through multiple bootcamps to staff of Government of Saudi Arabia.
- Developed and maintained course curriculum, syllabus, and instructional materials.
- Utilized various teaching methods such as lectures, hands-on lab sessions, group projects, and quizzes to enhance the learning experience.
- Assessed student performance through exams, quizzes, assignments, and projects.
- Provided individualized feedback and guidance to students to help them improve their understanding and skills.
- Mentored and advised students on research projects and independent studies.

Lambton College, Canada

Jan 2021 – Jun 2021

Faculty – Machine Learning

(5 months)

Taught Machine Learning course at Diploma level at Lambton College in Toronto.

- Developed and maintained course curriculum, syllabus, and instructional materials.
- Utilized various teaching methods such as lectures, hands-on lab sessions, group projects, and quizzes to enhance the learning experience.
- Assessed student performance through exams, quizzes, assignments, and projects.
- Provided individualized feedback and guidance to students to help them improve their understanding and skills.

Sheridan College, Canada

May 2021 – Aug 2021

Faculty – Machine Learning

(3 months)

Taught Machine Learning course at Advanced Diploma level at Sheridan College.

- Developed and maintained course curriculum, syllabus, and instructional materials.
- Utilized various teaching methods such as lectures, hands-on lab sessions, group projects, and quizzes to enhance the learning experience.
- Assessed student performance through exams, quizzes, assignments, and projects.
- Provided individualized feedback and guidance to students to help them improve their understanding and skills.

Scotia Bank, Canada

Aug 2019 – Dec 2019

Research Assistant – Machine Learning

(5 months)

- Worked as a Research Assistant in the Customer Analytics Lab of a bank.
- Assisted in the design, development, and execution of research projects related to customer analytics and segmentation.
- Conducted data analysis using various statistical and machine learning techniques.
- Utilized various programming languages such as Python, R, and SQL to manipulate and analyze large datasets.
- Collaborated with cross-functional teams to identify and prioritize research topics and objectives.
- Continuously conduct research to evaluate feasibility and identify potential risks.
- Research and recommend industry, academic and allied best practices in technical and ethical matters.

Avaros, Canada**Artificial Intelligence Consultant****Aug 2019 – Dec 2019****(5 months)**

- Hired as an independent consultant to help Avaros accelerate their journey of implementing Artificial Intelligence in their business across Ontario.
- Collate and delivered AI and ML training for senior staff and management.
- Researched and developed potential use-cases of AI implementation in healthcare.
- Develop recommendations, designed & developed, and delivered AI training for leadership that will help enhance AI literacy and adoption of technology.
- Research and recommend industry, academic and allied best practices in technical and ethical matters.

Evometric, United Kingdom**Artificial Intelligence Consultant****Aug 2022 – Oct 2022****(3 months)**

- Hired as an independent consultant to help Evometric accelerate their journey of implementing Artificial Intelligence in their business across UK.
- Collate and delivered AI and ML training for senior staff and management.
- Researched and developed potential use-cases of AI implementation in healthcare.
- Develop recommendations, designed & developed, and delivered AI training for leadership that will help enhance AI literacy and adoption of technology.
- Research and recommend industry, academic and allied best practices in technical and ethical matters.

The Hospital for Sick Children**Analyst / Partner****Mar 2017 – Dec 2018****(20 months)**

- Developed Business Intelligence reporting and dashboards to generate actionable insights and improve business understanding.
- Developed and managed complex ETL processes to collect data from various structured and unstructured sources.
- Improved revenue forecasting by developing novel machine-learning based forecasting solutions.
- Support clinical and non-clinical areas in the development of KPIs, dashboards, data visualizations, and financial reports for the purposes of monitoring and optimizing performance.
- Provided subject matter expertise and helped identify, design, test solutions and support implementation activities.
- Researched Artificial Intelligence use-cases in healthcare and developed recommendations for leadership.
- Developed and delivered training to senior leadership of hospital to help enhance their AI literacy in general and specific to use-cases in healthcare around the world.
- Developed AI manual for staff to educate on foundational concepts of AI and machine learning.
- Develop and propose potential use-cases for Machine Learning and AI in my department.
- Conduct ongoing research and provide advice on technical and ethical best practices from industry, allies and academia.
- Provided guidance on foundational concepts of AI, including its capabilities and limitations, and associated terminology.

- Investigated and recommended potential use cases of AI within healthcare and strategies for scaling the implementation across the organization.

Aga Khan Hospital, Tanzania
Manager Reporting and Analytics

Mar 2014 – Oct 2016
(18 months)

- Directed the strategy and analytical roadmap and partnered with leaders to understand their analytical needs.
- Managed reporting infrastructure to support various BI and regulatory reporting requirements of hospital.
- Developed advanced analytics statistical models and solutions to improve key business outcomes.
- Designed, built, and maintained automated reporting, dashboards, and analyses to enable self-service data needs for faster decision making.
- Provided support to develop, implement and maintain a data analytics culture to seek answers to business challenges and opportunities.
- Collaborated with various business units and key stakeholders to identify opportunities to drive business value by leveraging business intelligence, data visualization and advanced analytics.
- Continuously conduct research to evaluate feasibility and identify potential risks.
- Research and recommend industry, academic and allied best practices in technical and ethical matters.
- Compiled and presented existing training resources in a usable format for management.
- Provided guidance on foundational concepts of AI, including its capabilities and limitations, and associated terminology.
- Investigated and recommended potential use cases of AI within healthcare and strategies for scaling the implementation across the organization.

Aga Khan Hospital, Pakistan
Senior Business Analyst

Aug 2010 – Mar 2014
(43 months)

- Worked closely with key stakeholders to identify analytical needs within the various functional areas.
- Identified opportunities to improve the quality of databases and worked with stakeholders to implement changes.
- Researched and built automation and optimization solutions for core business units.
- Consulted with stakeholders on data and technical issues based on in-depth business and technical knowledge, providing guidance on technical implementation feasibility.
- Worked closely with the central data science team to execute critical data science initiatives at scale.
- Continuously conduct research to evaluate feasibility and identify potential risks.
- Research and recommend industry, academic and allied best practices in technical and ethical matters.
- Built solutions that are reliable and robust, leveraging best practices in data analytics and software development.
- Provided guidance on foundational concepts of AI, including its capabilities and limitations, and associated terminology.

- Investigated and recommended potential use cases of AI within healthcare and strategies for scaling the implementation across the organization.

INVITED SPEAKER / TALKS:

- Data Science Summit 2022 Poland, *Machine Learning with PyCaret*, Warsaw, Poland, Nov 2022
- GOTO Copenhagen 2022, *Machine Learning made easy with PyCaret*, Copenhagen Denmark, Oct 2022
- Smith School of Business Toronto, *Explainable AI (XAI) with PyCaret*, Toronto CA, Aug 2022
- Databricks Data+AI Summit 2022, *Time Series Forecasting with PyCaret*, San Francisco, Jun 2022
- PyCon US Salt Lake City Utah, *Machine Learning with PyCaret*, SLC Utah, Apr 2022
- DPhi Bootcamp 2021, *Deploying Machine Learning Pipelines using PyCaret*, Bangalore IN, Dec 2021
- Virtual Tech Talks at Data + AI Meetup, *MLFlow integration with PyCaret and PyTorch*, Seattle, Dec 2021
- INFORMS Workshop on Data Mining & Decision Analytics, *ML with PyCaret*, Anaheim CA, Sep 2021
- Smith School of Business Toronto, *Low-code Machine Learning with PyCaret*, Toronto CA, Aug 2021
- MLOps World; Machine Learning in Production 2021, *ML with PyCaret*, Toronto CA, Jun 2021
- Canadian Operational Research Society (CORS), *Predicting Customer Churn with PyCaret*, Jun 2021
- Databricks Data+AI Summit 2021, *Machine Learning with PyCaret*, Online, May 2021
- CAMDEA Digital Forum, *Machine Learning with PyCaret*, Toronto CA, Jan 2021
- Tensorflow User Group Coimbatore, *Machine Learning with PyCaret*, Coimbatore IN, Dec 2020
- Smith School of Business Toronto, *Low-code Machine Learning with PyCaret*, Toronto CA, Aug 2020

PUBLICATIONS

