***EDUCATION, Projects and Continuing Professional Development in Data Science, Data Analysis, and Artificial Intelligence***

***Professional Certificate in Data Science***

***SKILLS: Data Science, Data Analysis, Data Analytics, Artificial Intelligence, Machine Learning.***

In this Professional Certificate, I developed and honed hands-on skills in Data Science and Machine Learning. I started with an orientation of Data Science and its Methodology, became familiar and used a variety of data science tools, learned Python and SQL, performed Data Visualization and Analysis, and created Machine Learning models. In the process they completed several labs and assignments on the cloud including a Capstone Project at the end to apply and demonstrate their knowledge and skills. In this course, I acquired skills and competencies in the following areas: Fundamentals of Data Science, Tools for Data Science, Data Science Methodology, Python for Data Science, AI & Development, Python Project for Data Science, Databases and SQL for Data Science with Python, Data Analysis with Python, Data Visualization with Python, Machine Learning with Python, Applied Data Science Capstone.

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With this qualification, I am ready for a career in data science with demonstrated ability to solve for real-world problems. I can apply Data Science methodology - work with Jupyter notebooks - create Python apps - access relational databases using SQL & Python - use Python libraries to generate data visualizations - perform data analysis using Pandas - construct & evaluate Machine Learning (ML) models using Scikit-learn & SciPy and apply data science & ML techniques to real data sets. I can conceive, research, and prototype new machine learning and high-performance computing techniques. Develop relevant software and hardware technologies with the goal of converting these into products. May also participate in the development of intellectual property.

This course has enabled me to create artificial intelligence products, create machine learning models and retraining systems using knowledge of statistics, programming, data science, and software engineering. I can extract meaning from and interpret data, utilising tools and methods from the fields of statistics, machine learning, and artificial intelligence.

The course has given me competencies in the following areas

* Collect, clean, and manipulate data. Present insights extracted from data to enable the transformation of organisations.
* Oversee the building and enhancement of artificial intelligence (AI) and machine learning products and analytical tools and services. Translate data-driven initiatives and potential ideas into fully developed data products and services. Create, manage, communicate, and present data analytics strategy, vision, and roadmaps.
* Develop deep learning and computer vision applications for Autonomous Devices. Develop applications for AI devices using existing AI Platforms. Understand interplay of hardware and software architectures on future algorithms and applications to develop AI Platforms.
* Develop, construct, test and maintain architectures, such as databases and large-scale processing systems.
* Conduct research using bioinformatics theory and methods in areas such as pharmaceuticals, medical technology, biotechnology, computational biology, proteomics, computer information science, biology and medical informatics. May design databases and develop algorithms for processing and analyzing genomic information, or other biological information.
* Research or develop geospatial technologies. May produce databases, perform applications programming, or coordinate projects. May specialize in areas such as agriculture, mining, health care, retail trade, urban planning, or military intelligence.
* Design strategies for enterprise database systems and set standards for operations, programming, and security. Design and construct large relational databases. Integrate new systems with existing warehouse structure and refine system performance and functionality.
* Design, model, or implement corporate data warehousing activities. Program and configure warehouses of database information and provide support to warehouse users.
* Plan and deliver data integration to support data warehouse performance. Mentor team members.
* Use or develop tools and algorithms to explore and analyze data and develop insights to improve business decisions and processes.
* Collaborate with platform engineers, business subject matter experts and technology delivery teams to deliver strategic cognitive computing research projects form design to execution.

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**Endorsements**

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**[FIBAA](https://www.fibaa.org/" \t "_blank)**

This credential has been successfully certified by the Foundation for International Business Administration Accreditation and is recommended for recognition of up to 6 ECTS credits. For more information about FIBAA, visit www.fibaa.org.

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**[American Council on Education](https://www.acenet.edu/National-Guide/Pages/Organization.aspx?oid=6d532c35-75c4-ea11-a812-000d3a33232a" \t "_blank)**

This credential has been successfully evaluated by the American Council on Education for college credit. It is recommended for a total of 12 college credits. For more information about ACE Learning Evaluations, visit www.acenet.edu.

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* *Excel Basics for Data Analysis, IBM,* ***Grade Achieved: 95.22%***
* *[Introduction to Data Analysis using Microsoft Excel](https://www.coursera.org/account/accomplishments/records/BD73HUYZOQ91)*

Coursera Project Network, **Grade Achieved: 80%**

* *[Business Analysis & Process Management](https://www.coursera.org/account/accomplishments/records/7WUXUC1O8CV4)*

Coursera Project Network, **Grade Achieved: 83.33%**

* *Agile Project: Product Prototype Touchpoint Analysis in Miro, Coursera Project Network,* ***Grade Achieved: 90.47%***
* *[Build a computer vision app with Azure Cognitive Services](https://www.coursera.org/account/accomplishments/records/ORMTGDRPPF02)*

Microsoft, **Grade Achieved: 92.70%**

* *Introduction to DevOps, IBM,* ***Grade Achieved: 82.50%***
* *Data Analysis with Python, IBM,* ***Grade Achieved: 94.40%***
* *[Applied Data Science Capstone](https://www.coursera.org/account/accomplishments/records/5QWJNZ7VK5DA)*

IBM, **Grade Achieved: 91.33%**

* *Data Visualization with Python, IBM,* ***Grade Achieved: 87%***
* *Databases and SQL for Data Science with Python, IBM,* ***Grade Achieved: 94.50%***
* *Python Project for Data Science, IBM,* ***Grade Achieved: 86.66%***
* *Introduction to Data Analytics, IBM,* ***Grade Achieved: 93%***
* *What is Data Science? IBM,* ***Grade Achieved: 93.33%***
* *Data Science Methodology, IBM,* ***Grade Achieved: 90%***
* *Python for Data Science, AI & Development, IBM,* ***Grade Achieved: 94.30%***
* *Tools for Data Science, IBM,* ***Grade Achieved: 97%***
* *Prompt Engineering for ChatGPT, Vanderbilt University,* ***Grade Achieved: 100%***
* *Introduction to Artificial Intelligence (AI), IBM,* ***Grade Achieved: 88.88%***
* *Introduction to Generative AI, Google Cloud,* ***Grade Achieved: 80%***
* *Information Technology (IT) Fundamentals for Everyone, IBM,* ***Grade Achieved: 90%***
* *Generative AI: Introduction and Applications, IBM,* ***Grade Achieved: 73.21%***
* *Machine Learning with Python, IBM,* ***Grade Achieved: 91.50%***
* *Introduction to Scrum Master Profession, SkillUp EdTech,* ***Grade Achieved: 90.41%***
* *Get Started with Python, Google,* ***Grade Achieved: 95.20%***
* *Introduction to Software Engineering, IBM,* ***Grade Achieved: 81.20%***
* *Linear Algebra: Linear Systems and Matrix Equations, Johns Hopkins University,* ***Grade Achieved: 92.60%***
* *[Create Charts and Dashboards Using Microsoft Excel](https://www.coursera.org/account/accomplishments/records/N2WJVGGOA21H)* [Coursera Project Network,](https://www.coursera.org/account/accomplishments/records/N2WJVGGOA21H) **[Grade Achieved: 83.33%](https://www.coursera.org/account/accomplishments/records/N2WJVGGOA21H)**
* Create Your First Python Program From UST, Coursera Project Network, **Grade Achieved: 80%**
* Create a Simple Gantt Chart using Microsoft Excel, Coursera Project Network, **Grade Achieved: 80%**
* [Command Line Interface (CLI) With Golang From Infosys](https://www.coursera.org/account/accomplishments/records/0H41M5VZH4II)
* Deprecated Guided Projects

**Grade Achieved: 100%**

* [Program Procurement Planning with Clickup, Coursera Project Network,](https://www.coursera.org/account/accomplishments/records/FEKYMTZXLBOD) **[Grade](https://www.coursera.org/account/accomplishments/records/FEKYMTZXLBOD)****[Achieved: 100%](https://www.coursera.org/account/accomplishments/records/FEKYMTZXLBOD)**
* [Create a Customer Service Survey in Microsoft Forms, Coursera Project Network,](https://www.coursera.org/account/accomplishments/records/VU2R0Q84LUS9) **[Grade Achieved: 100%](https://www.coursera.org/account/accomplishments/records/VU2R0Q84LUS9)**
* [Automize Monthly Report Creation with Power Automate, Coursera Project Network](https://www.coursera.org/account/accomplishments/records/VU2R0Q84LUS9) **[Grade Achieved: 80%](https://www.coursera.org/account/accomplishments/records/VU2R0Q84LUS9)** [Build a social media presence for your business using Canva, Coursera Project Network,](https://www.coursera.org/account/accomplishments/records/ZW6JWHJNWMAX) **[Grade Achieved: 100%](https://www.coursera.org/account/accomplishments/records/ZW6JWHJNWMAX)**
* [Collaborating with G Suite Apps, Coursera Project Network,](https://www.coursera.org/account/accomplishments/records/ZW6JWHJNWMAX) **[Grade Achieved: 100%](https://www.coursera.org/account/accomplishments/records/ZW6JWHJNWMAX)** [Business Analysis & Process Management](https://www.coursera.org/account/accomplishments/records/ZW6JWHJNWMAX)

[Coursera Project Network,](https://www.coursera.org/account/accomplishments/records/ZW6JWHJNWMAX) **[Grade Achieved: 83.33%](https://www.coursera.org/account/accomplishments/records/ZW6JWHJNWMAX)**

* [Creating a Visual Tasks Guide with Microsoft PowerPoint, Coursera Project Network](https://www.coursera.org/account/accomplishments/records/DYDAY1SGBI1T) **[Grade Achieved: 100%](https://www.coursera.org/account/accomplishments/records/DYDAY1SGBI1T)**
* [Investment Risk Management, Coursera Project Network,](https://www.coursera.org/account/accomplishments/records/ZW6JWHJNWMAX) **[Grade Achieved: 80%](https://www.coursera.org/account/accomplishments/records/ZW6JWHJNWMAX)**
* [Creating a Budget with Microsoft Excel, Coursera Project Network,](https://www.coursera.org/account/accomplishments/records/HK6OB2JKL480) **[Grade Achieved: 90%](https://www.coursera.org/account/accomplishments/records/HK6OB2JKL480)**
* [Agile Project: Product Prototype Touchpoint Analysis in Miro, Coursera Project Network](https://www.coursera.org/account/accomplishments/records/HK6OB2JKL480) **[Grade Achieved: 95.23%](https://www.coursera.org/account/accomplishments/records/HK6OB2JKL480)**
* [Build a Full Website using WordPress](https://www.coursera.org/account/accomplishments/records/GKULHF1GO0RM)

[Coursera Project Network](https://www.coursera.org/account/accomplishments/records/HK6OB2JKL480)

**[Grade Achieved: 88.88%](https://www.coursera.org/account/accomplishments/records/HK6OB2JKL480)**

* [Develop a Company Website with Wix](https://www.coursera.org/account/accomplishments/records/KA8PRVBQCNSA)

[Coursera Project Network](https://www.coursera.org/account/accomplishments/records/HK6OB2JKL480)

**[Grade Achieved: 80%](https://www.coursera.org/account/accomplishments/records/HK6OB2JKL480)**

* [Collaborating with G Suite Apps](https://www.coursera.org/account/accomplishments/records/SYIN1D8K1JB2)

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* [Create a Simple Gantt Chart using Microsoft Excel](https://www.coursera.org/account/accomplishments/records/2MXFK89MP9ZP)

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* [[LangChain Chat with Your Data](https://www.coursera.org/account/accomplishments/records/ZW6JWHJNWMAX)](https://www.coursera.org/learn/langchain-chat-with-your-data-project)[, DeepLearning.AI, Grade Achieved: 100%](https://www.coursera.org/account/accomplishments/records/ZW6JWHJNWMAX)