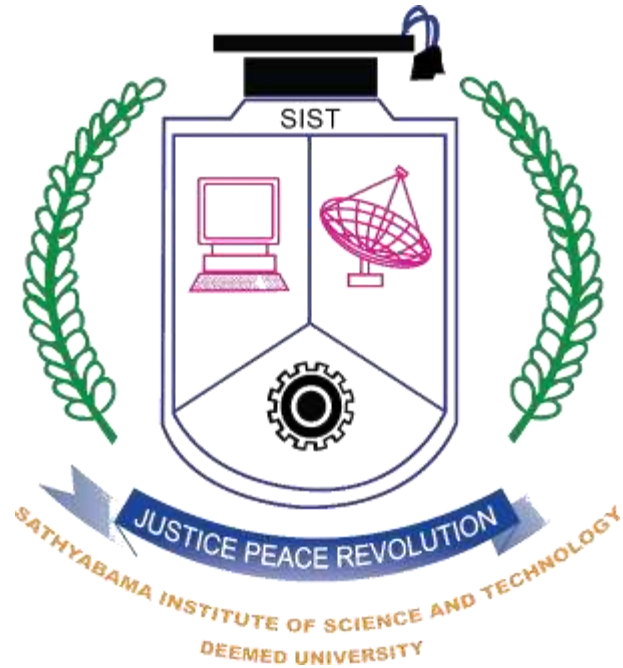




MSc Bioinformatics and Data science

Name- Barath R

Reg No - 41739005

Roll No - 21S739510

Professional Course

- Biology Meets Programming: Bioinformatics for Beginners- 25hrs
- Intro to Machine Learning- 5hrs
- Intermediate Machine Learning- 5hrs
- Pandas- 5hrs
- Create your First Python Program from UST- 3hrs
- Create Your First Web App with Python and Flask- 3hrs
- Python Database Connection with MariaDB From Infosys- 2hrs
- Total- 48hrs

UC San Diego

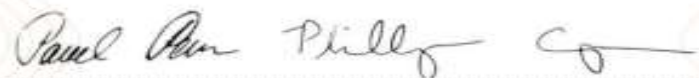
Jun 11, 2022

Barath R

has successfully completed

Biology Meets Programming: Bioinformatics for Beginners

an online non-credit course authorized by University of California San Diego and offered through Coursera



Pavel Pevzner, Phillip E. C. Compeau
Ronald R. Taylor Distinguished Professor, Postdoctoral Researcher
Computer Science & Engineering, Computer Science & Engineering

COURSE
CERTIFICATE



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<https://coursera.org/verify/3E3W4KQ8BRCR>

Coursera has confirmed the identity of this individual and their participation in the course.

Biology Meets Programming: Bioinformatics for Beginners

About

This course will cover algorithms for solving various biological problems along with a handful of programming challenges helping you implement these algorithms in Python. It offers a gently-paced introduction to our Bioinformatics Specialization (<https://www.coursera.org/specializations/bioinformatics>), preparing learners to take the first course in the Specialization, "Finding Hidden Messages in DNA".

Skills

- Bioinformatics
- Bioinformatics Algorithms
- Biology
- Python Programming



CERTIFICATE OF COMPLETION

Barath.r

HAS SUCCESSFULLY COMPLETED THE COURSE

Intro to Machine Learning

ON JUNE 13, 2022

A handwritten signature in black ink, reading "Dan Becker", written over a thin horizontal line.

DAN BECKER, KAGGLE INSTRUCTOR

A handwritten signature in black ink, reading "Alexis Cook", written over a thin horizontal line.

ALEXIS COOK, HEAD OF KAGGLE LEARN

Intro to Machine Learning

About

We'll start with an overview of how machine learning models work and how they are used. This may feel basic if you've done statistical modeling or machine learning before. Don't worry, we will progress to building powerful models soon.

Skills

- How models work
- Basic Data Exploration
- Your First Machine learning Model
- Model Validation
- Underfitting and Overfitting
- Random Forests
- Machine Learning competitions



CERTIFICATE OF COMPLETION

Barath.r

HAS SUCCESSFULLY COMPLETED THE COURSE

Intermediate Machine Learning

ON JUNE 11, 2022

A handwritten signature in black ink, appearing to read "Alexis Cook", written over a horizontal line.

ALEXIS COOK, HEAD OF KAGGLE LEARN



Intermediate Machine Learning

About

In this course, you will accelerate your machine learning expertise by learning how to:

- tackle data types often found in real-world datasets (missing values, categorical variables),
- design pipelines to improve the quality of your machine learning code,
- use advanced techniques for model validation (cross-validation),
- build state-of-the-art models that are widely used to win Kaggle competitions (XGBoost), and
- avoid common and important data science mistakes (leakage).

Skills

- Missing values
- Categorical variables
- Pipelines
- Cross-validation
- XGBoost



CERTIFICATE OF COMPLETION

Barath.r

HAS SUCCESSFULLY COMPLETED THE COURSE

Pandas

ON JUNE 12, 2022

A handwritten signature in black ink, reading "Aleksey Bilogur".

ALEKSEY BILOGUR, KAGGLE INSTRUCTOR

A handwritten signature in black ink, reading "Alexis Cook".

ALEXIS COOK, HEAD OF KAGGLE LEARN

Pandas

About

In this micro-course, you'll learn all about pandas, the most popular Python library for data analysis. Along the way, you'll complete several hands-on exercises with real-world data. We recommend that you work on the exercises while reading the corresponding tutorials.

Skills

- Indexing, Selecting and Assigning
- Summary Functions and Maps
- Grouping and Sorting
- Data Types and Missing values
- Renaming and Combining

U - S T

Jun 12, 2022

Barath R

has successfully completed

Create Your First Python Program From UST

an online non-credit project authorized by Coursera Project Network and offered through Coursera



Amit Yadav
Instructor
Machine Learning and Data Science

PROJECT
CERTIFICATE



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<https://coursera.org/verify/3KSH8CRLV4MV>

Coursera has confirmed the identity of this individual and their participation in the project.

Create your First Python Program from UST

About

With this Guided Project from UST, you can quickly build in-demand job skills and expand your career opportunities in the Computer Science field by learning the foundational elements of the Python programming language and its basic syntax.

Skills

- Conditional statements
- List Comprehension
- Loops
- Functional Programming
- Variable (computer science)

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network

Jun 12, 2022

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has successfully completed

Create Your First Web App with Python and Flask

an online non-credit project authorized by Coursera Project Network and offered through
Coursera



Amit Yadav
Instructor
Machine Learning and Data Science

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participation in the project.

Create Your First Web App with Python and Flask

About

This course is aimed at learners who are looking to get started with web application development using Python, and have some prior programming experience in the Python programming language. The ideal learner has understanding of Python syntax, HTML syntax, and computer programming concepts.

Skills

- Web Development
- Python Programming
- Application development
- Software Development
- Computer Programming



Jun 12, 2022

Barath R

has successfully completed

**Python Database Connection with MariaDB From
Infosys**

an online non-credit project authorized by Coursera Project Network and offered through
Coursera

Swetha Maheshwary

Swetha Maheshwary,
Lead, Education, Training & Assessment
Infosys, Ltd

PROJECT
CERTIFICATE



Verify at:

<https://coursera.org/verify/8VUF66ZWW5XE>

Coursera has confirmed the identity of this individual and their
participation in the project.

Python Database Connection with MariaDB From Infosys

About

Brought to you by Infosys, a global leader in next-generation digital services and consulting, this project is created by a certified Technology Associate in Python Programming, and the team lead of Education, Training and Assessments.

Skills

- MariaDB Configuration
- MariaDB installation
- Python installation
- Python Scripting
- Command-Line Interface