



MSc Bioinformatics and Data science

Name- Rohini R

Reg No - 41739015

Roll No - 21S739510

Professional Course

• Biology Meets Programming: Bioinformatics for Beginners-	25hrs
• Intro to Machine Learning-	5hrs
• Python-	5hrs
• Python Database Connection with MariaDB From Infosys-	2hrs
• Database Operations in MariaDB Using Python From Infosys-	2hrs
• Create your First Python Program from UST-	3hrs
• Create Your First Web App with Python and Flask-	3hrs
• Build a Data Science Web App with Stream lit and Python-	3hrs
• Custom Prediction Routine on Google AI Platform-	3hrs
Total-	51hrs

UC San Diego

June 18, 2022

Rohini 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

Paul Allen Phillips

Paul Allen Phillips, Phillip E. C. Gumpert
Ronald R. Taylor Distinguished Professor, President and Researcher
Computer Science & Engineering, Computer Science & Engineering

**COURSE
CERTIFICATE**



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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



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

RohiniAdhi

HAS SUCCESSFULLY COMPLETED THE COURSE

Python

ON 04/01/23, 2023

ROHINI ADHI, KAGGLE INSTRUCTOR

ALEXS COOK, HEAD OF KAGGLE LEARN

Python

About

This course covers the key Python skills you'll need so you can start using Python for data science. The course is ideal for someone with some previous coding experience who wants to add Python to their repertoire. (If you're a first-time coder, you are encouraged to check out our Intro to Programming course, which is designed for complete beginners who would like to get started with Python.)

Skills

- Functions and Help
- Booleans and conditionals
- Lists
- Loops and List comprehensions
- Strings and Dictionaries
- Working with External Libraries

Infosys[®]

JUN 12, 2022

Rohini 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
Lead | Education, Training & Assessment
Infosys Ltd

PROJECT
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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



Database Operations in MariaDB Using Python From Infosys

About

You will have created scripts written in Python to perform various database operations in a MariaDB server. Get ready to easily CREATE, READ, UPDATE and DELETE employee data from a table within a company's server. 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 Technology Analyst at Infosys.

Skills

- Python Script
- Python Programming
- Relational Database
- SQL
- Command-Line Interface

U - S T

Jun 12, 2022

Rohini 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 Weber
Instructor
Machine Learning and Data Science

PROJECT
CERTIFICATE



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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)



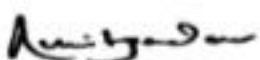
Jun 12, 2022

Rohini R

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 Weber
Instructor
Machine Learning and Data Science

PROJECT
CERTIFICATE



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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

Rohini R

has successfully completed

Build a Data Science Web App with Streamlit and Python

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



Jonathan Kolon
Instructor
Machine Learning and Data Science

PROJECT
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Build a Data Science Web App with Streamlit and Python

About

Welcome to this hands-on project on building your first data science web app with the Streamlit library in Python. By the end of this project, you are going to be comfortable with using Python and Streamlit to build beautiful and interactive web apps with zero web development experience! We are going to load, explore, visualize and interact with data, and generate dashboards in less than 100 lines of Python code!

Skills

- Data Science
- Web Development
- Python Programming
- Streamlit
- Data Visualization (DataViz)



Jun 18, 2023

Rohini R

has successfully completed

Custom Prediction Routine on Google AI Platform

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

Anil Yeh
Instructor
Machine Learning and Data Science

PROJECT
CERTIFICATE



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Custom Prediction Routine on Google AI Platform

About

you will learn how to deploy, and use a model on Google's AI Platform. Normally, any model trained with the TensorFlow framework is quite easy to deploy, and you can simply upload a Saved Model on Google Storage, and create an AI Platform model with it. But, in practice, we may not always use TensorFlow. Fortunately, the AI Platform allows for custom prediction routines as well and that's what we are going to focus on.

Skills

- Deep Learning
- Custom prediction routine
- Google ai platform
- Machine Learning
- Keras