



INSTITUTION'S
INNOVATION
COUNCIL
Ministry of Higher Education



NALLAMUTHU GOUNDER MAHALINGAM COLLEGE (AUTONOMOUS)

Re-Accredited by NAAC,
An ISO9001:2015 certified institution,
Affiliated to Bharathiar University
Pollachi-642001.

**DEPARTMENT OF
DATA ANALYTICS & AI&ML**
In Associate with
INSTITUTION'S INNOVATION COUNCIL
Organizes
**SEMINAR ON
THE ROLE OF
ARTIFICIAL
INTELLIGENCE
AND
DATA SCIENCE IN
INNOVATIVE RESEARCH**

DATE: 12/01/2024
TIME: 10:30AM

**VENUE:
ABDUL KALAM
HALL**

CHIEF PATRON

Dr. R. MUTHUKUMURAN
PRINCIPAL
NALLAMUTHU GOUNDER
MAHALINGAM COLLEGE

ADVISORS

Dr. S. SARAVANA BABU
Dean- Academic

Dr. S. UMAPATHY
Dean- Research

SPEAKER-1

Dr. R. NANDHAKUMAR
Associate Professor
Dept. of Computer Science
NGM College
Pollachi

SPEAKER-2

Dr. C. DURGA DEVI
Associate Professor
Dept. of Information Technology
NGM College
Pollachi

PROGRAM ORGANIZERS

Dr. E. RAMADEVI
Associate Professor
Department of Data Analytics

Dr. S. NIRAIMATHI
Associate Professor
Dept. of AI&ML

PROGRAM CONVENORS

Dr. B. AZHAGUSUNDARI
Associate Professor
Dept. Of AI&ML

Ms. M. SIVAKAMI
Assistant Professor
Dept. Of Data Analytics



IIC Report

1. Academic year -----2023-2024

Program/ Activity Name- Seminar on The Role of Artificial Intelligence and Data Science in Innovation Research

2. Photograph Geo-tagged- 2 photos

3. Video of the event - 10 to 15 minutes

4. Program type ----- (Select any one below) others-----

1. Level -1 Expert Talk

8. Level -2- Demo day

2. Level -1 Exposure visit

9. Level -2- Bootcamp

3. Level -1 -Mentoring session

10. Level -3- Exhibition

4. Level -2- Conference

11. Level 4- Challenges

5. Level -2- Seminar

12. Level -4- Hackathon

6. Level -2 workshop

13. Level -4- Tech Fest

7. Level -2-Competition

5. Duration of the Activity-----5 Hrs----- (in Hours)

6. Start Date -----**12.01.2023**-----

End Date -----

7. Number of Students Participation-----118----- (Minimum 40 students)

8. Number of Faculty Participated-----2-----

9. Number of External Participants , if any -----2-----

10. Expenditure amount , if any -----

11.Any Remark-----

12.Mode of session delivery-----Offline -----

13. Objective of the Seminar

The objective of the seminar was focused on the influence of Data science and artificial intelligence in various aspects of society- from grocery shopping to commuting on public transport and everything that is evolving since the integration of data science and AI.

It also focused on innovation and automation at the expense of efficiency and productivity. The wide use of data science and AI programmes allows businesses to maintain a balance between them. Data science and AI applications have introduced a standardized process of completing business functions within less time and more efficiently. Moreover, it has sunk deep into the organization's roots by becoming an active part of decision-making, customer interaction, product innovation, market research, and marketing strategies.

It also focused on Artificial intelligence, a subset of data science that is often considered the proxy for the human brain, which uses intelligent and smart systems to offer business processes automation, efficiency, and productivity and the real-life AI applications like Chatbots, Voice assistance, Automated recommendations, Language translations, Image recognition etc.,

14. Benefit in terms of learning/skill/ Knowledge obtained

The Seminar inculcated the influence of Data science and artificial intelligence in various aspects, since the integration of data science and AI.

The seminar highlighted how Artificial intelligence (AI) is being increasingly integrated into scientific discovery to augment and accelerate research, helping scientists to generate hypotheses, design experiments, collect and interpret large datasets, and gain insights that might not have been possible using traditional scientific methods.

Seminar also laid foundation on how Generative AI methods are used to create designs, such as small-molecule drugs and proteins, by analysing diverse data modalities, including images and sequences. It can transform various sectors such as healthcare, pharmaceuticals, supply chains, and more. AI can also optimize supply chains in engineering, manufacturing, and services, resulting in cost savings. Additionally, it also threw light on how AI and Data science serves as a new method of invention, reshaping the innovation process and the organization of research and development (R&D).

15. Over all report of the event

The Department of Computer Science with Artificial Intelligence & Machine Learning and the Department of Data Analytics jointly organized a Seminar with the Institutional Innovation Council of NGM College, Pollachi. The Seminar targeted the Research innovations going on in

the domain of Artificial Intelligence and DataScience and the ongoing Research Activities in the associated domain. The Resource Persons delivered the Seminar across two sessions and the titles were

Resource Person	Title	Session
Durgadevi C.R Assistant Professor Dept of Information Technology NGM College Pollachi	Role of AI & Data Science in Innovation	FN
R.Nandha Kumar Assistant Professor & Head Dept of Computer Science NGM College Pollachi	Role of AI & ML in Innovative Research	AN



Dr. S. Niraimathi
HOD
Dr.S.Niraimathi
Dr. S. NIRAIMATHI, M.C.A., M.Phil., Ph.D.,
Associate Professor & Head,
Department of Computer Science with AI & ML
N.G.M. College, Pollachi - 642 001.

Dr. E. Rama Devi
Dr. E. RAMA DEVI, MCA., M.Phil., Ph.D.,
Associate Professor & Head
Department of Computer Science
with Data Analytics
NGM College, Pollachi - 642 001.

Dr. R. Muthukumar
Principal
Dr. R. MUTHUKUMARAN,
M.A., M.Phil., ~~REG. PRINCIPAL~~
PRINCIPAL
N.G.M. College, Pollachi - 642 001
Coimbatore District

NGM COLLEGE POLLACHI

Workshop on “Hands on Session on Applications Development Using Python Machine Learning Libraries”

Date : 24.01.2024

Venue :Lab IX

Ref No: IQAC/2023-24/Jan/213

Organized by
Department of Computer Science with
Artificial Intelligence & Machine Learning



Nallamuthu Gounder Mahalingam College
(AUTONOMOUS), Pollachi

WORKSHOP
Hands on Session on Application Development Using Python Machine Learning Libraries

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

ADVISORS
Dr. S. SARAVANA BABU
Dean- Academic
Dr. S. UMAPATHY
Dean- Research

Date
24
.01.2024

CHIEF PATRON
Dr. R. MUTHUKUMURAN
PRINCIPAL
NALLAMUTHU GOUNDERMAHALINGAM COLLEGE

Resource Person
Mrs. A.Shubha
Software Trainer
Study Shinee Software Solution
Pollachi

Venue
LAB 9

Time
10AM
To
01PM

Convenors
■ Dr. S.Niraimathi
Associate Professor & Head
Department of Computer Science with
Artificial Intelligence & Machine Learning
NGM College
Pollachi
■ Dr.B. Azhagusundari
Associate Professor
Department of Computer Science with
Artificial Intelligence & Machine Learning
NGM College
Pollachi



NGM COLLEGE, POLLACHI

**DEPARTMENT OF COMPUTER SCIENCE WITH ARTIFICIAL
INTELLIGENCE & MACHINE LEARNING**

**Workshop on “Hands on Session on Applications Development Using
Python Machine Learning Libraries”**

IQAC Ref. No. IQAC/2023-24/Jan/213

AGENDA

Venue: lab IX

Date: 24/01/2024

- Prayer Song:** P. Vaishnavi
II B.Sc CS with AI & ML
- Welcome Address:** Dr. S. Niraimathi
Associate Professor & Head
Dept of CS with AI & ML
NGM College
Pollachi
- Resource Person:** Ms. SHUBHA
Assistant Professor
Software Trainer
Study Software Solutions Pollachi
- Vote of Thanks:** K.Kavyaharshini
II B.Sc CS with AI & ML

Detailed Report of the Workshop

Title

Hands on Session on “**Application Development Using Python Machine Learning Libraries**”

Date: 24.01.2024

Preamble

Hands on Session on “Application Development Using Python Machine Learning Libraries” has been organized by the Department of Computer Science with Artificial Intelligence and Machine Learning on 24.01.2024 at NGM College for the First and second Year Students of the course

Objective

- To Imbibe the basics concepts and capacities of building a Project using Django
- To impart the Technical know-how of using Machine Libraries in Python to facilitate Project building

Methodology

- The technical nuances of extracting data from the Dataset has been demonstrated by the use of Django framework
- Project building has been demonstrated step by step by incorporating the Machine Learning Libraries in Python like Pandas, numpy, and Matplotlib & PyCharm
- Knowledge transfer of the Workshop was done using Power point presentation and Pycharm and Django

Event Outcome

- Students got hands on session on Application Development using Machine learning libraries.
- Awareness on Python Machine learning Libraries and Django framework in order to develop an Application
- To use the Datasets from different Data source like PyCharm and Django

Profile of the Participants

A total of 62 students from Department of Computer Science with AI and ML attended the session

Resource Person: Ms. A. SHUBHA
Software Trainer
Study Software Solutions
Pollachi

Python is today's most popular programming language with endless applications in various fields. It is ideally suited for deployment, analysis, and maintenance owing to its flexible and dynamic nature.

Python for Data Engineering is one of the crucial skills required in this field to create application using PYcharm and Django Library.. The Presentation was streamlined into 3 modules

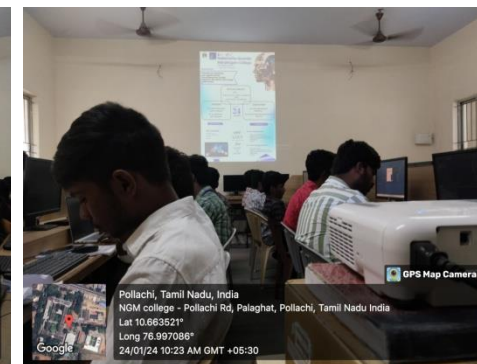
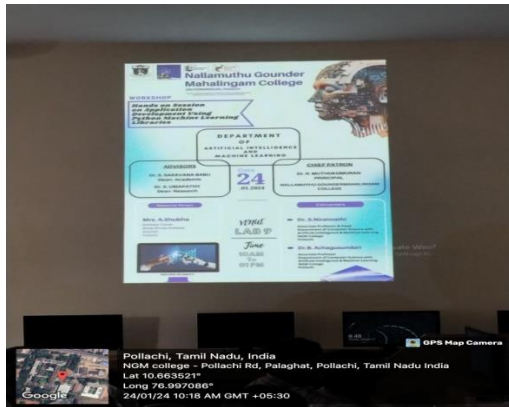
About Python Machine Learning Libraries

This module threw light on the essentials of Datascience libraries like Pandas, numpy, PYcharm Django and how to incorporate these Libraries for building a Project

Application development using Python

This Module provided valuable insight into Python Application development for beginners and how to do small projects in Pycharm , which proves to be a good way to understand Python more deeply and become more competent in it.

Photos



Feedback of Workshop on “Hands on Session on Applications Development Using Python Machine Learning Libraries”

24.01.2024

Name	Regno	Was the Programme helpful?	Write an abstract of the Programme stating its importance in Application development	Did the Workshop meet your expectations
Sukitha S	23 AM 43	Yes	Yes it is important	Yes
VVPranesh	23AM15	Yes	Yes	No
K.nishalini nachiyar	23 AM 37	Yes	Yes it is important	Yes
Akshatha	23 AM 29	Yes	Its help to make framework using program	Maybe
V.Maha hema	23 AM 34	Yes	It is useful to made visual frames in coding	Yes
P.Sivashini	23 AM 40	Yes	It is useful to made visual frame in coding	Yes
Varun	22 AM 09	Yes	A+	Yes
Nandhine	23AM35	Yes	Good	Yes
S.Jagan	23AM07	Yes	Yes it's important.	Yes
Hemalatha.P	23 AM 32	Yes	It is very useful to make framework And I have got an idea about it It's very helpful	Yes
Syedsaqtha D	23 AM 44	Yes	Yes	Yes
Adithyan S	23AM02	Yes	It was good the way of presenting and practical implementation are very professional to understand the workshop was very useful to know about the importance of programming in an professional field	Yes
Nagarjuna R	23AM12	Yes	Took my first step in application development	Yes
S.lokesh	23 am 09	Yes	Yes	Maybe
T.suhitha	23AM42	Yes	I learn workshop applications	Maybe
Nivitha T	23AM38	Yes	Good	Yes
Sri laxman S	23 AM 23	Yes	Django is created by python and it's used for app	Yes

			development	
Sanjay	23 AM 19	Yes	I newly know about django	Maybe
Arthysree.S	23AM30	Yes	Yes it is important.	Yes
Sridevi v	23 AM 41	Yes	Helpful	Yes
K. Nethra	23 AM 36	Yes	it's more useful and important	Yes
Kalaivani.k	23 AM 33	Yes	Its so helpful to do projects and our software trainer was so cool and genuine and she helped a lot ...	Yes
a.vidhyabhushan	23 AM 25	Yes	We learnt how to install apps by coding	Yes
Vishnu Ram.M	23 AM 27	No	Django	Maybe
Abinaya g	23AM28	Yes	Good	Yes
M.sharvesh	23AM22	Yes	Yes	Yes
Shafeek Ahammed	22 AM 06	Yes	Yes	Yes
K. Nethra	23 AM 36	Yes	It's more useful and important too	Yes
Binu wilson	22 AM 03	Yes	It's good not bad for me	Yes
Siva Ram	22 AM 08	Yes	It is useful	Yes
A.sandhiya	22 AM 16	Yes	Python programming language is very clear	Yes
M. Krishna jayanthi	22 am 15	Yes	Good	Yes
M.Bavadharani	22 AM 19	Yes	Helpful and good	Yes
Kaviyaharshini K	22 AM 14	Yes	An effective and well-written abstract helps readers understand the scope of your paper and whether the information is relevant to their studies and it is very useful for me.	Yes
Kaviyaharshini K	22 AM 14	Yes	An effective and well-written abstract helps readers understand the scope of your paper and whether the information is relevant to their studies and it is very useful for me.	Yes
Yogesh T	22 AM 10	Yes	Its very useful to create a application using a django	Yes
Yojana	22 AM 18	Yes	It is used for develop of mini projects	Yes
Vaishnavi	22 AM 17	Yes	Useful for gaining the	Yes

			knowledge	
S.Bhuvaneshwar	23 AM 05	Yes	Nice	Yes
Vishall.M	23 AM 26	Yes	Nice	Yes
Sabari dharsha	23 AM 18	Maybe	Sure	Maybe
M. Mukelan	23 AM 11	Yes	Useful	Yes
P.Krishna Prasath	23am08	Yes	Useful for Python Coding	Yes



HOD
Dr.S.Niraimathi

Dr. S. NIRAIMATHI, M.C.A., M.Phil., Ph.D.,
Associate Professor & Head,
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Principal

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