



MASTER

GENERATIVE AI

DATA SCIENCE COURSE



ABOUT PWSKILLS



Welcome to the forefront of education with **Physics Wallah**, renowned for its accessibility and affordability. As a proud division dedicated to nurturing tech skills in aspiring youth, we empower tomorrow's technology trailblazers. Join us in shaping vibrant careers in the world of technology, where quality meets affordability to pave the way for your success story.

Join us at PW Skills to embark on a transformative educational journey, where excellence, affordability, and practical learning converge to shape tomorrow's skilled workforce.

WHY GENERATIVE-AI?

Generative AI stands at the forefront of technological innovation, revolutionising the way we interact with technology. It's not just a breakthrough; it's a game-changer. This cutting-edge technology harnesses the power of machine learning to create, imitate, and generate content autonomously, opening doors to endless possibilities.

Generative AI's importance lies in its capacity to push creative boundaries across various fields. From art and music to healthcare and finance, it's enabling new dimensions of creativity, efficiency, and problem-solving. It crafts realistic images, generates personalised content, and even aids in drug discovery through simulations.

In today's world, Generative AI is transforming industries. It's streamlining workflows, automating repetitive tasks, and augmenting human capabilities. In the future, it promises groundbreaking advancements in personalization, entertainment, and research, fostering a world where AI collaborates seamlessly with human ingenuity.

Imagine AI creating bespoke experiences tailored uniquely to individual preferences or revolutionising entire industries with innovative solutions. Generative AI is not just a technological leap; it's a gateway to an era of boundless creativity and innovation, offering a glimpse into a future where the unimaginable becomes reality. Join the journey into a world redefined by Generative AI.



CURRICULUM

1 Python

Python Basics

Basics Data Structure & OOPs concept.

Advance Python

Concepts like handling errors and exceptions, logging event details, making python modules.

Databases and Web API

Get familiar with DBMS like MySQL(SQL) & MongoDB(No-SQL). Creating API connections using Python. Basic understanding of Web application architecture.



2 Statistics

Basics in Statistics

Get familiar with statistical concepts.

Advance Statistics

Get familiar how statistics makes impact behind any business idea to be implemented.



3 ML-1

Introduction

Get familiar with fundamental terminologies in the Data Science domain.

Feature Engineering

Get familiar how statistics makes impact behind any business idea to be implemented.



Exploratory Data Analysis

Learn to use Statistics to explore data and find insights from the data to monitor key parameters.

ML Algorithms

Learn the fundamental ML algorithms used in Industry:

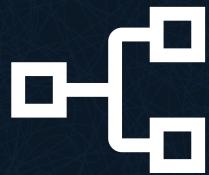
- Regression Models
- SVM
- Clustering Algorithms
- Decision trees, and Ensemble Techniques
- Bagging and Boosting techniques



PROJECT

Learn to build a product using ML models and deploying it on cloud, to use it from anywhere:

- Spam detection
- Climate Visibility



4

Deep learning

ANN

Learn the concept of building Neural Networks and how it brought revolution in the Data Science domain. Learn to use industry demanding Deep Learning libraries like Tensorflow & Pytorch.

- **Project:** Mini Project In TensorFlow

CNN

Learn to build various CNN models from scratch and to use prebuilt CNN models from using it in Image Classification to object detection, and many more applications in various industries.

- **Project:** Face detection Project

5

NLP

Learn how to prepare textual data for NLP and basics of RNN and other advanced models in NLP.

6

Generative AI

Learn the current in demand AI tools and techniques used in industry to analyse and synthesis of data(it can be textual data or image or video) like:

- Hugging Face
- LLMs
- BERT
- GPT
- Image generator
- **Project:** Learn to build a chatbot from scratch using Langchain and Chainlit that not only responds textually but also generate visual

LLaMA
by  Meta



PROGRAM HIGHLIGHTS



One-to-One doubt support

Unlock knowledge with our dedicated Subject Matter Experts (SMEs), available for personalised virtual meets or chat support. Seamlessly clarify your doubts, deepen your understanding, and excel with expert guidance, ensuring a confident and enriching learning journey.

Industry Relevant Projects

Immerse in our curriculum bridging theory and practice through industry-led projects. Gain invaluable hands-on experience guided by seasoned experts, ensuring real-world relevance for your skill set in the market.

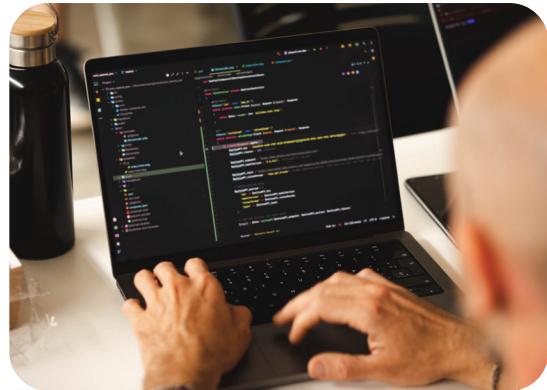


Experience portal

Unleash your potential with our Experience Portal! Gain hands-on industry projects to elevate your skills and expertise. Showcasing your abilities has never been more impactful.

Practice Exercises

Experience our immersive practice exercises, enabling you to deepen your understanding and master concepts effortlessly. Unveil your potential with engaging activities designed to enhance your comprehension in just moments!



Profile building session

Unlock your industry potential! Elevate beyond skills—showcase your expertise! Join exclusive sessions focusing on crafting a standout LinkedIn profile & portfolio. Learn to captivate recruiters and amplify connections. Transform your abilities into opportunities effortlessly. Let's shape your professional journey together!

Resume building session

Unlock your career potential effortlessly!

Join our exclusive sessions to craft role-specific resumes tailored to beat Applicant Tracking Systems (ATS). Get noticed and land your dream job seamlessly! Elevate your career with our specialised resume-building sessions.



PW Labs

Our company's core values revolve around accessibility and empowerment. Levelling the digital playground for all, regardless of their system's configuration, deserves access to cutting-edge technology to up-skill. Our digital playground PW-labs embody this ethos, providing a platform where individuals can harness high-end computational power effortlessly, amplifying their upskilling journey without limitations. We prioritise inclusivity, enabling all to thrive and innovate, fostering a culture of limitless possibilities. Join us in embracing technological advancement without constraints, empowering you to reach new heights in your pursuits.

The screenshot shows a code editor interface with several tabs open. The main tab displays a large block of PHP and HTML code. The code includes multiple `<div>` elements with classes like "bottom-container", "container", "row", "col-xs-12", and "bottom_block". It also contains `<address>` tags with placeholder text like "`<?=date('Y')?>. Home`". There are also `<div class="payp -logo">` and `#` blocks. The code is heavily annotated with numerous yellow and orange arrows pointing from one part of the code to another, indicating relationships or flow between different sections. The editor's sidebar shows "Libraries" and "Logs and Consoles". Below the code editor, a message box displays the output of a script: `getClientScript() -> registerCoreScript`, followed by a series of meta tags with various attributes like `name="pageTitle"`, `content="page title"`, and `meta="viewport"`. At the bottom, there is a footer message: `to Yii... p0->theme->ba`.

```
2.html > php1_edit.php > untitled2.html >
/Disc/Code/cod
287 <div class="bottom-container">
288 <div class="container">
289 <div class="row">
290 <div class="col-xs-12">
291 <div class="bottom_block">
292 <address>@ <?=date('Y')?>. Home </address>
293 <div class="payp -logo">
294 <a href="#">#</a>
295 </div>
296 </div>
297 </div>
298 <div class="row">
299 <div class="col-xs-12">
300 <div class="bottom_block">
301 <address>@ <?=date('Y')?>. Main </address>
302 <div class="pa pa -logo">
303 <a href="#">#</a>
304 </div>
305 </div>
306 </div>
307 </div>
308 <div class="row">
309 <div class="col-xs-12">
310 <div class="bottom_block">
311 <address>@ <?=date('Y')?>. Service </address>
312 <div class="pa pa -logo">
313 <a href="#">#</a>
314 </div>
315 </div>
316 </div>
317 </div>

```

EXPERIENCE SEAMLESS SUPPORT

Have queries?

Engage instantly via Reve Chat for real-time assistance.
Connect through Dashboard Doubt forum for prompt
responses. (For Tech Queries)

Prefer a personalised touch?

Request a Call Back or rely on our Email Support for
comprehensive assistance. (For Non Tech Query)

Community Channel Advantage

Join our Telegram Community Channel for unparalleled connectivity
and an immersive community experience, fostering growth and
shared knowledge! (For Personal Discussion among peers)

Your satisfaction is **our priority!**
Connect **effortlessly**,
we're here to ensure your journey
with us is **smooth and hassle-free.**

LEARNING PATH



Python Programming

6 Weeks

Statistics

2 Weeks

Feature Engineering

1 Week



Nlp

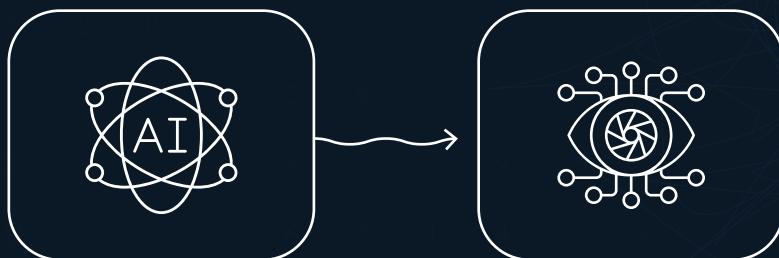
3 Weeks

Deep learning

5 Weeks

Machine learning

6 Weeks



**Mastering
Generative AI**

6 Weeks

**Capstone Projects With
Deployments**

3 Weeks

FACULTY



Vishwa Mohan

(CIO @ Physics Wallah, LinkedIn, Oracle)
(14+ Years of teaching experience)

[LinkedIn →](#)



Imran

(Senior Data Scientist @ Physics Wallah
3+ Years of teaching Experience)

[LinkedIn →](#)



Ayan Debnath

(Solutions Architect @ Bosch,
Albot Technologies, Bobble AI)
(5+ Years of experience)

[LinkedIn →](#)



Ajay Kumar Gupta

(Senior Data Scientist @ Synopsis, Novartis)
(4+ teaching years experience)

[LinkedIn →](#)



Ekta Negi

(Data Scientist @ Deloitte, Capgemini Invent, IBM)
(3+ years teaching experience)

[LinkedIn →](#)

Subhodeep Dey

(DGM Analytics @Jio, UnitedHealth Group,
Johnson & Johnson Health and Wellness Solutions,
5+ years teaching experience)

[LinkedIn →](#)



PROJECTS



Climate
Visibility



Custom
Chat Gpt



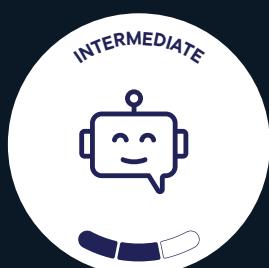
Name Entity
recognition



Spam
Detection



Sign Language
Detection



Customised
Chat bot



Gen AI An alexa
like assistant



On prompt image and caption generator

PROGRAMME HIGHLIGHTS

Mode



Blended
(Recorded + Live)

Learning



Price

₹15000

200+ Hours

Industry relevant
projects



8+

Avg Salary Hike



60- 70%

Starts on

30th Jan, 2024

Duration

8 Months