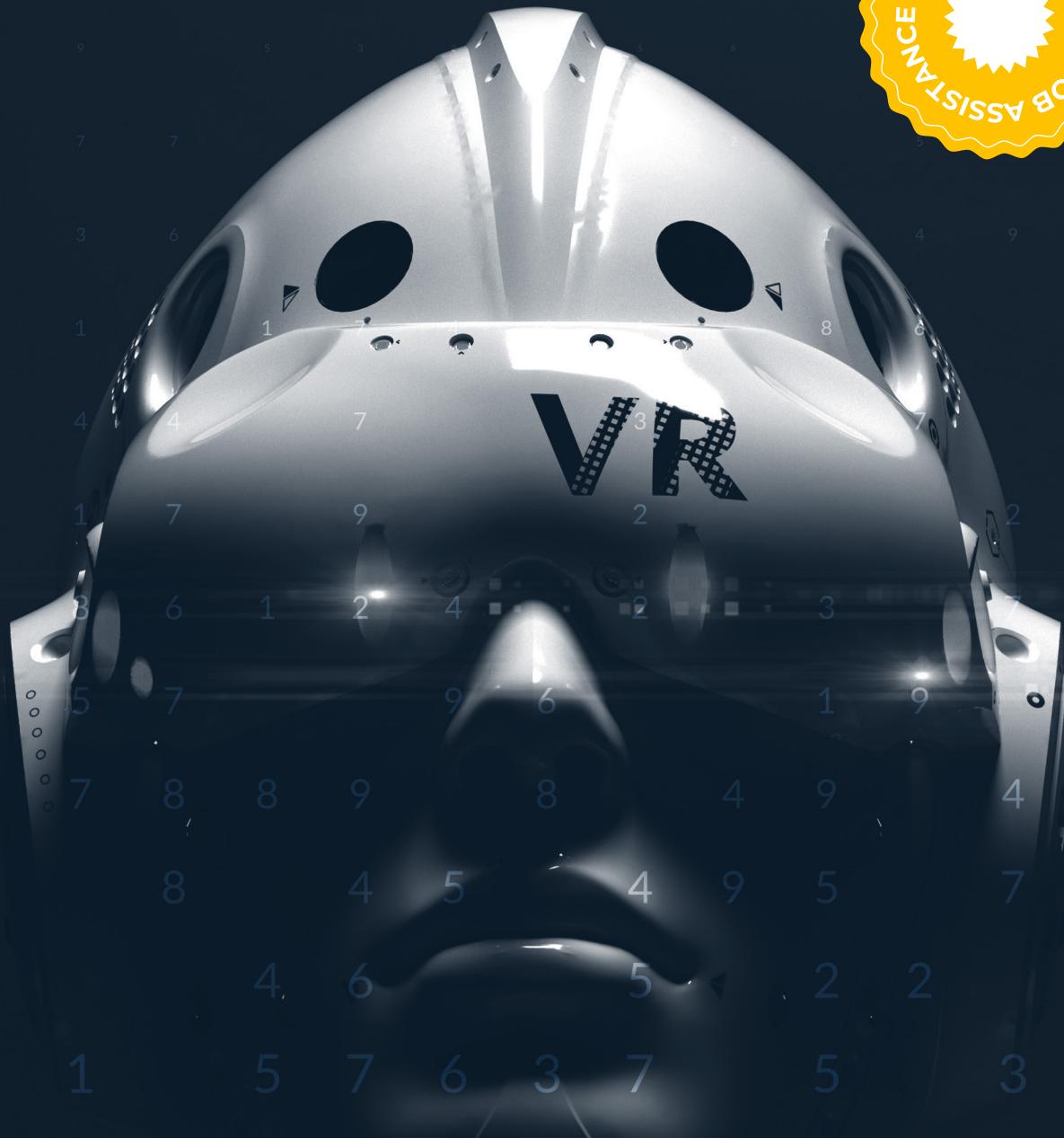




**SKILLS**

**DATA SCIENCE WITH  
GENERATIVE AI  
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



7

## Power BI

Optional



# PROGRAM HIGHLIGHTS



## Daily Doubt Session

If you encounter any error in your learning journey we are here help to help join our daily doubt session Monday to Friday at 6 PM IST and get your doubt cleared from our expert team.

## 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.

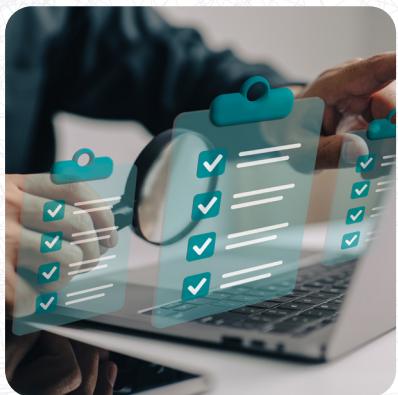


## Interview Questions in every module

In each module, you'll dive into interview-specific questions aimed at enhancing your technical expertise and interview readiness. These questions reflect real-world industry challenges, equipping you with the problem-solving skills and confidence needed to excel in technical interviews.

## **Assignments and Quizzes in every module**

Every module includes assignments and quizzes designed to reinforce your learning and test your understanding. These exercises provide hands-on practice and valuable feedback, ensuring you're well-prepared for practical applications and assessments.



## **Modal Solutions for each assignment**

For each assignment, you'll receive detailed solutions to help you evaluate your approach and understanding. These solutions provide insights into effective problem-solving techniques, ensuring you're well-prepared for real-world applications.

## **Dedicated Interview preparation course**

You'll gain access to a dedicated interview preparation course, focused on sharpening your skills for technical and behavioral interviews. This course covers essential strategies, mock interviews, and tips to help you approach interviews with confidence and expertise.



## 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.



# **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**

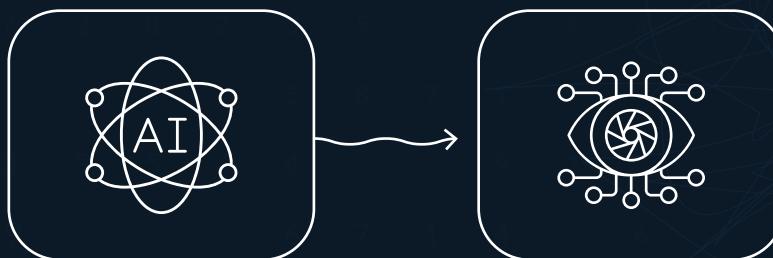
3 Weeks

**Deep learning**

5 Weeks

**Machine learning**

6 Weeks



**Mastering  
Generative AI**

6 Weeks

**Capstone Projects With  
Deployments**

3 Weeks

# PROJECTS



Climate  
Visibility



Custom  
Chat Gpt



Name Entity  
recognition



Spam  
Detection



Sign Language  
Detection



Customised  
Chat bot



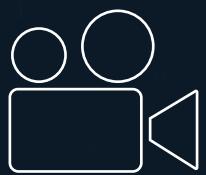
Gen AI An alexa  
like assistant



On prompt image and caption generator

# PROGRAMME HIGHLIGHTS

Mode



**Blended  
(Recorded + Live)**

Learning



**200+ Hours**

Industry relevant projects



**8+**

Avg Salary Hike



**60- 70%**



# THANK YOU.

**Contact Us &  
Enroll now**

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