



Learn, Create & Succeed with us

FULL STACK DEVELOPMENT WITH AI

Course

Developing end-to-end web applications



INTRODUCING PW SKILLS

PW Skills is a leading tech upskilling platform specializing in cutting-edge AI and Web-related courses with a strong focus on industry practices to help you progress in your professional career.

PW Skills has empowered over **3.5 Lakh learners till date.**



23%

The demand for Web Developers will grow **23%** by 2031



\$89 B

The global web development market is projected to reach **\$89 billion** by 2027.



8.03%

Web development has a CAGR growth rate of **8.03%** by 2027.

Elevate your **Expertise**

&

Embrace the **Digital Revolution!**



UNLEASH YOUR WEB WIZARDRY!

Explore the power of coding with our cutting-edge Full Stack Development with AI Course Program! You'll gain proficiency in database management using MongoDB, server-side development using Node.js and Express.js, and client-side development using React.js.

Through this comprehensive program, you will learn to leverage each stack component to build dynamic and scalable web applications.

Join us & become a web wizard!

The journey starts here!.....

Structured Lesson plans for all the modules helpful for revision and Preparation.



Updated program as per current and future trends.



**UNLOCK
BENEFITS
WITH DATA**

Industry Ready Resources

State Of The Art Curriculum

Industry Exposure

Hands-On Learning

The industry-relevant projects and mentorship provide valuable insights across various domains.



Gain practical insights, and solve real-world challenges in real-time.

OFFERINGS

Course Type	Basic	Premium	Pro
Duration	8 months	8 months	8 months
MRP	Rs. 7,000	Rs. 15,000	Rs. 20,000
Delivery Mode	Recorded	Hybrid (Recorded content + 1 Live Revision Session over weekend)	Hybrid (Recorded content + 1 Live Revision Session over weekend)
Certification Criteria	>60% Quiz Attempt >60% Video Completion	>60% Quiz Attempt >60% Assignment Attempt >60% Video Completion	>60% Quiz Attempt >60% Assignment Attempt >60% Video Completion
Certification	PW Skills	PW PW Skills with PwC	PW Skills with PwC
PwC Case Studies	✗	✓	✓
AI Modules	✓	✓	✓
Industry Expert Masterclass	✗	✓	✓
Email Support	✓	✓	✓
Doubt Session	Sunday	Everyday	Everyday
Assignment	✗	✓	✓
In browser coding practice	✗	✓	✓
Industry projects	✓	✓	✓
Delivery mode for Projects	Recorded	Recorded + 2 live case studies by PwC experts	Recorded + (Live Capstone project) + 2 live case studies by PwC experts
Job Assistance	✗	✗	✓

COURSE CURRICULUM

Introduction to Web Development and The Internet



- Introduction to Web Development
- Understanding the Internet
- Setting Up Your Development Environment

Getting Started with HTML5



- Hello HTML
- Commenting Code
- Elements and Tags
- Grouping Elements
- Speed Coding with Emmet
- HTML Attributes
- Inline vs. Block Elements
- Building Lists
- Hyperlinks
- Tables
- Class and ID Attributes
- Guided Project: Tables

Color, Backgrounds and Typography



- Working with Color
- Working with Backgrounds
- Typography

Building Forms and Integrating Media



- Building Forms
- Form Tags & Elements
- Guided Project: Forms
- Working with Media

Semantic Elements and Modern HTML



- Semantic Elements
- Entities
- Accessibility

Getting Started with Cascading Style Sheets (CSS)



- Introduction to CSS
- Handy VSCode Extensions for CSS
- Selecting Elements

COURSE CURRICULUM

Understanding the Box Model



- The CSS Box Model

Layout and Positioning



- Display & Visibility
- Float and Clear
- Introduction to CSS Positioning

Responsive Web Design



- Responsive Web Design
- Working with Flexbox
- Working with CSS Grid

Introduction to Version Control and Git



- Introduction to Version Control & Git
- Getting Started with Git
- Tracking Changes in Git
- Undoing Changes in Git
- Branching & Merging in Git

Pseudo Elements & Selectors



- Using Pseudo-Elements
- Using Pseudo-Selectors

Animation and Transitions



- Working with CSS Transforms
- Using CSS Transitions
- Using CSS Animation

Advanced CSS Features



- Using CSS Filters
- Using CSS Variables

COURSE CURRICULUM

GitHub and Collaboration



- Introduction to GitHub
- Working with Remote Repositories
- Collaboration on GitHub
- GitHub Workflows & Best Practices

Getting Started with JavaScript



- Introduction to JavaScript
- Data Types & Structures
- Working with Array Module
- Working with Objects Module

Control Structures



- Conditionals
- Loops
- Decoding Functions
- Advanced Function Techniques

Working with Data & Data Structures in JavaScript



- Working with Strings
- Working with Arrays
- Advanced Array Manipulation Techniques
- Destructuring
- Heterogenous Concatenation

Working with the Browser and User Interaction



- The Browser Object Model (BOM)
- The Document Object Model (DOM)
- DOM Manipulation
- Event Handlers

Asynchronous Programming and Network I/O



- Understanding Asynchronous Programming in JavaScript
- Working with Promises
- Memory Management:
- Console Methods
- Web Storage API

COURSE CURRICULUM

Getting Started with React



- Understanding Frontend Development
- Introducing React
- React Fundamentals
- Rendering Lists

State and Side Effects



- State
- Handling Side Effects

Data Management and Advanced Patterns



- Data Management and Optimization
- Building Forms with React
- React Component Patterns

Mastering React Router



- Introduction to Routing
- Route Patterns and Handling

State Management at Scale using Redux



- Introduction to Redux
- Creating Slices
- Connecting Redux to React
- Dispatching Actions
- Advanced Patterns and State Management

Styling React Apps using Tailwind CSS



- Styling React Components
- Getting Started with Tailwind CSS

COURSE CURRICULUM

Responsive Web Design & Theme Management



- Responsive Web Design
- Themes

Command-Line Interface



- Read-Evaluate-Print-Loop (REPL)
- Reading User Input

Advanced Tailwind Use Cases



- Transitions and Animations
- Advanced Tailwind Functions and Directives
- Project

File and Streams



- Working with the File System

Introduction to Node.js



- Fundamentals
- Getting Started with Node.js
- The Node Package Manager (NPM)

Streams, Network and Web Servers



- Streams API
- Network I/O
- Building Web Servers

Working with Events and Cryptography



- Events API
- Crypto

COURSE CURRICULUM

Scalable Node.js Applications



- Cluster/Worker
- Building Production-Ready Apps: An Insight

RDBMS and MySQL



- Introduction to Databases
- Setting Up MySQL
- MySQL Basics: CRUD Operations

Using MySQL with Node.js



- Connecting MySQL with Node.js
- Querying MySQL from Node.js

Handling Queries



- Working with Queries
- Joins & Relationships

Using Sequelize - An ORM



- Introduction to ORM: Sequelize
- Advanced Sequelize Features
- Database Migrations & Seeding
- Final Project: Bringing It All Together

NoSQL with MongoDB



- Introduction to NoSQL & MongoDB
- Setting Up MongoDB
- CRUD Operations in MongoDB

COURSE CURRICULUM

Advanced Queries with MongoDB



- Advanced Queries & Indexing

Using Mongoose ODM



- Introduction to Mongoose
- Advanced Mongoose Operations

Aggregation Pipelines



- Relationships & Aggregation

Using MongoDB Atlas



- Deploying & Managing Databases

Introduction



- Introduction to Express.js

Routing



- Basic Routing
- Advanced Routing

Middleware



- Middleware Basics

COURSE CURRICULUM

MVC Architecture



- Setting Up MVC

Project: Building a School/College Event Management System



- Setting Up the Project Environment
- Configuring MongoDB with Mongoose
- Building RESTful API Endpoints & Middleware
- Testing API Endpoints and Securing the API

Templating Engines



- Using Pug with Express.js

RESTful APIs



- API Development Basics

Authentication



- Passport.js Integration

Project: Building a School/College Event Management System



- Integrating Pug Templating Engine
- Building the Admin Dashboard Layout
- Creating and Managing Event Forms
- Connecting Admin Panel to Backend API

COURSE CURRICULUM

Security Practices



- Securing Express.js

Error Handling



- Managing Errors

Project: Building a School/College Event Management System



- Connecting React Frontend to Backend API
- Implementing OAuth with Google
- Securing Routes and Implementing Authorization
- Deploying with Render

Getting Started with Next.js



- Introduction to Next.js

Core Concepts



- Server vs. Client Components
- App Router Fundamentals

Navigation and Routing



- Linking and Navigation
- Dynamic Routing
- Redirection Techniques
- Route Groups
- Project: Building a Multi-Page Application - RecipeStack

COURSE CURRICULUM

Data Handling and APIs



- Data Fetching and Mutation
- Building APIs
- Middleware
- Lazy Loading and Suspense
- Project: Adding a data layer to RecipeStack

Advanced Patterns



- Component Composition
- Caching Strategies
- Optimization Features

UI Development with ShadCN



- Rapid UI with ShadCN

Implementing Authentication



- Introduction to Better-Auth
- Implementing Social Sign-On
- Implementing Magic Link and E-Mail based authentication
- Project: Adding Google Authentication to RecipeStack

Forms and Error Handling



- Handling Forms
- Error Handling

SEO and Security



- SEO
- Security & Deployment
- Project: Finishing and Deploying RecipeStack

COURSE CURRICULUM

AI Assisted Coding



- Environment Setup – AI Tools
- Writing Effective Prompts
- Understanding the workflow
- Generating HTML/CSS with AI
- JavaScript with AI

Building React Apps using AI



- Building Components & Hooks
- Connecting React to APIs

Building Node.js & Express Apps using AI



- Express Project Scaffolding
- Creating CRUD Endpoints
- Middleware & Debugging

Writing Database Queries using AI



- SQL Queries via AI
- MongoDB Queries via AI
- Resolving DB Integration Issues

AI Assisted Project Development



- Project Kickoff & Scaffolding
- The Frontend
- The Backend

Capstone Project



- Building a Full Stack Application

CAREER TRANSITIONS

Prithviraj

From
Graduation

To
Software Engineer at
LTIMindtree

Lipsa Jena

From
Graduate

To
React Developer at Casefox

Payal Kumari

To
Software Engineer at
Sourcewiz

From
Graduate

Avneet Dey

From
Graduate

To
System Engineer at TCS

CAREER TRANSITIONS

Sushree Sangita

From
Graduate

To
Junior UI Developer at
Asite Solutions PVT Ltd

Manas Ranjan

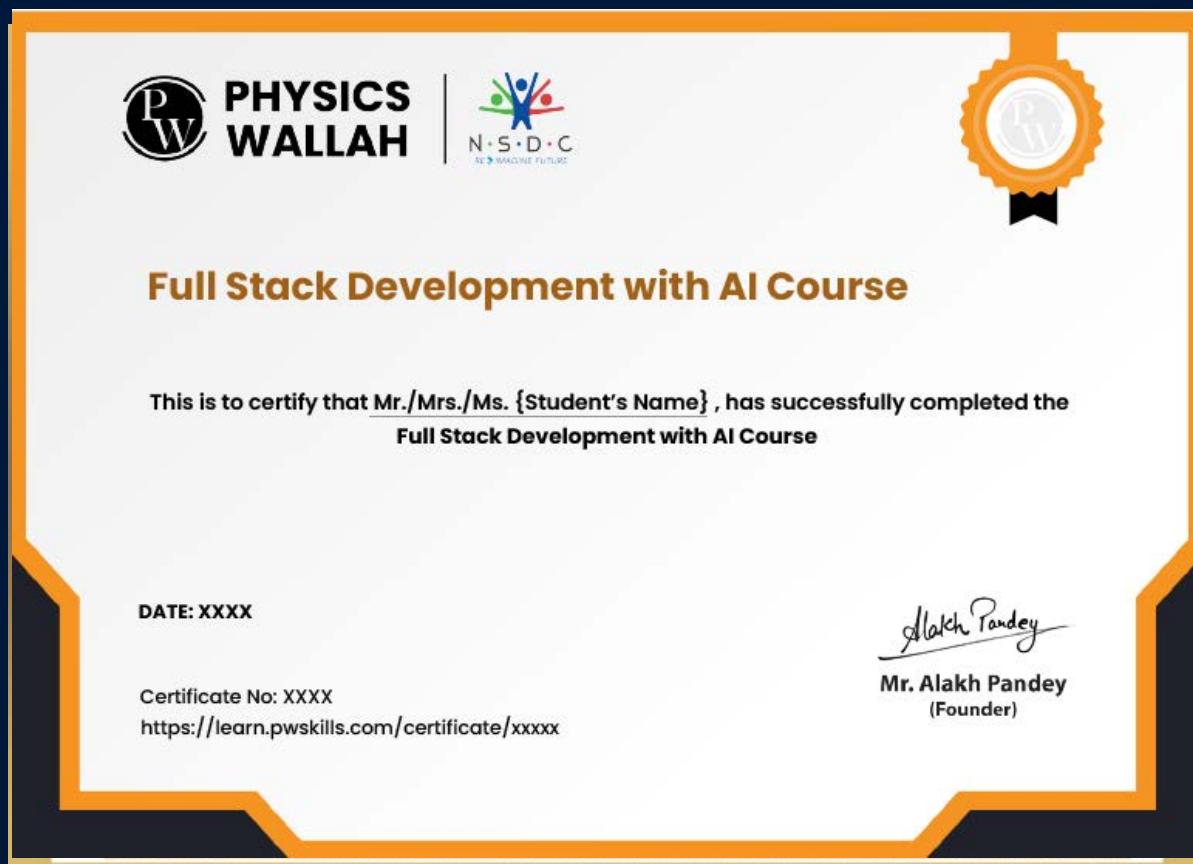
To
Associate Software engineer
at Accion labs

From
Assistant professor



CERTIFICATE

Receive a certificate of completion upon successfully completing this course!



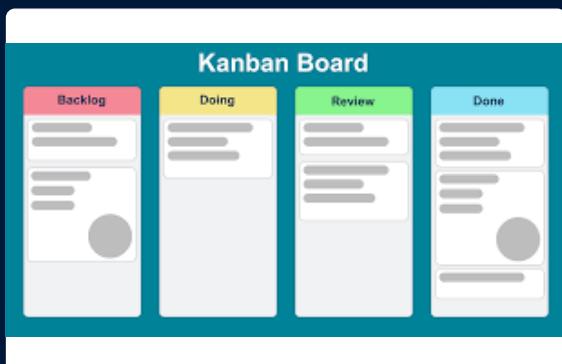
INDUSTRY PROJECTS



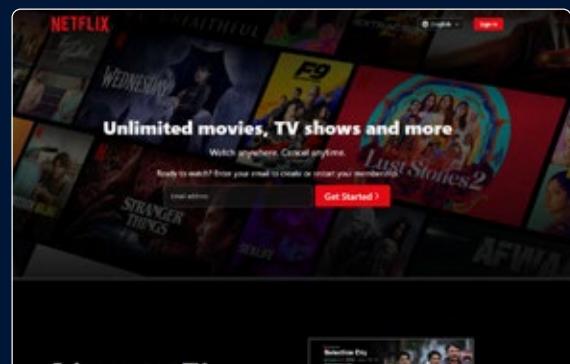
OYO Clone



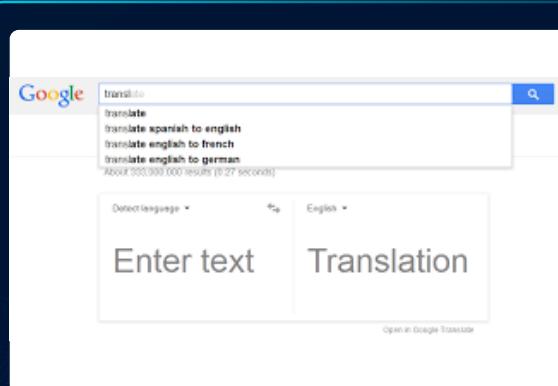
Gmail Clone Using
Tailwind CSS



Kanban Board Using React

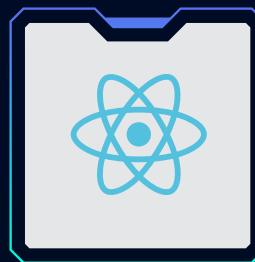


Capstone Project



Language translator using
google translate API (react)

TOOLS COVERED





**Contact Us
& Enrol now**



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