

## INTRODUCTION



Welcome to MATSUND Learning!

MATSUND Learning is a tech learning division of PAHASP Software Services Private Limited.

At MATSUND Learning, we are dedicated to empowering individuals through cutting-edge tech education. Whether you're looking to upskill in the latest programming languages, dive into data science, or stay ahead in a rapidly evolving digital landscape, MATSUND Learning is here to support your journey.

Our expert-led courses are designed to provide practical, hands-on knowledge that can be applied immediately in real-world scenarios. With a focus on flexibility, innovation, and quality, we ensure that our learners are equipped with the skills they need to excel in today's tech-driven world.

We started our first learning center in Phagwara, Punjab. Along with in-person training, we also offer courses online, allowing students from any city to join. This helps us reach more learners, no matter where they are.

In the future, we plan to expand and open new centers in major cities as soon as possible. Our goal is to make quality education accessible to more students. We are continuously working to improve our courses, provide the best learning experience, and ensure that students receive practical knowledge that helps them in their careers. Whether online or in-person, we are committed to delivering high-quality education to everyone.

Join us and unlock your potential with MATSUND Learning—where education meets innovation.

## WHO WE ARE?



PAHASP Software Services Private Limited was founded by a highly experienced software engineer from IIT, who brings over 25 years of expertise in the software industry. Our founder's vision is to bridge the gap between industry demands and tech education, offering high-quality learning experiences to individuals and businesses alike. MATSUND Learning is the tech learning division of PAHASP Software Services Private Limited. With MATSUND Learning, we aim to empower aspiring tech professionals with the skills and knowledge needed to thrive in today's rapidly changing technological landscape. At MATSUND Learning, our mission is to cultivate a talented pool of professionals for our company and to equip students with the skills needed to navigate real-world challenges and excel in the software industry. We are committed to providing an in-depth understanding of technical concepts, ensuring that our learners gain not only the theoretical knowledge but also the practical expertise required to thrive in today's competitive tech landscape. Our promise is to empower you with the tools and confidence to succeed in your career and make meaningful contributions to the ever-evolving world of technology.

The courses which we are offering are as follows:

- Python
- Artificial intelligence/ Machine Learning
- Scratch Courses for Kids
- Web Development
- Robotics for kids

Looking ahead, we are also planning to introduce a variety of advanced courses, including **Artificial Intelligence, Computer Networks, Distributed Systems, Data Structures & Algorithms**, and **Robotics** specifically designed for students in grades 10 to 12. Our approach emphasizes **project-based learning**, as we believe hands-on experience is essential for deep understanding. While not every course will include a project component, this initiative aims to immerse students in real-world applications of their learning.

In addition to course content, we are committed to supporting our students in their professional journeys, offering guidance in **resume building** to help them stand out in the job market. Upon completion, students will receive a **certificate** as a testament to the skills and knowledge they have gained through our courses, helping them to showcase their achievements with confidence.

# Web development

## Frontend:

- **HTML & CSS**
  - HTML Fundamentals
  - CSS Fundamentals
  - Responsive Web Design
  - CSS Frameworks (Optional - *Tailwind CSS*)
- **JavaScript**
  - JavaScript Fundamentals
  - Control Flow
  - Functions and Scope
  - DOM Manipulation
  - Asynchronous JavaScript
  - ES6+ Features
- **React.js (Frontend)**
  - Introduction to React
  - JSX Syntax
  - Components and Props
  - State Management
  - React Router (Navigation)
  - Working with APIs (Fetching Data)
  - React Hooks

## Backend:

- **Node.js and Express.js (Backend)**
  - Introduction to Node.js and npm
  - Building a Server with Express.js
  - Routing and Middleware
  - Handling HTTP Requests
  - Working with Databases
- **REST APIs**
  - RESTful API Principles
  - Designing APIs

- API Authentication and Authorization
- API Documentation
- Testing APIs (Functional Testing)

## Database:

- **MongoDB (Database)**
  - Introduction to NoSQL Databases
  - MongoDB Basics
  - CRUD Operations
  - Connecting to MongoDB with Node.js
- **My SQL(Database)**
  - Introduction to My SQL Databases
  - My SQL Basics
  - CRUD Operations
  - Connecting to My SQL with Node.js

## General/Full-Stack/Other:

- **Introduction to Web Development**
  - What is Web Development?
  - Frontend vs. Backend Development
  - Introduction to MERN Stack
  - Setting up the Development Environment
- **Git and GitHub (Moved and emphasized)**
  - Introduction to Version Control
  - Git Basics
  - Working with Branches
  - Collaborating with GitHub
  - Git Workflow Strategies
- **MERN Stack Project**
  - Planning and Designing a Full-Stack Application
  - Building the Frontend (React)
  - Building the Backend (Node.js, Express.js)
  - Connecting the Frontend and Backend
  - Deployment
- **Advanced Topics (Optional)**
  - State Management Libraries
  - Performance Optimization

- **Deployment**
  - Deploying the MERN application
- **Soft Skills for Developers (Optional)**
  - Communication and Collaboration
  - Problem-solving and Debugging
  - Time Management
  - Job Search Strategies