



Full Stack MERN

CURRICULUM

Brochure



About NomadSkills

At Nomadskills, we strive to bridge the gap between academia and the industry; providing skill education and training on cutting-edge technologies.

Our mission is to impart affordable and top-notch skill camps and courses, both offline and online, cultivating academic excellence and essential practical skills for your journey to success. We are not just an ed-tech company – we are the hub of innovation in education!

Visit Our Site:

www.nomadskills.in

Call Us:

+91 6301604347



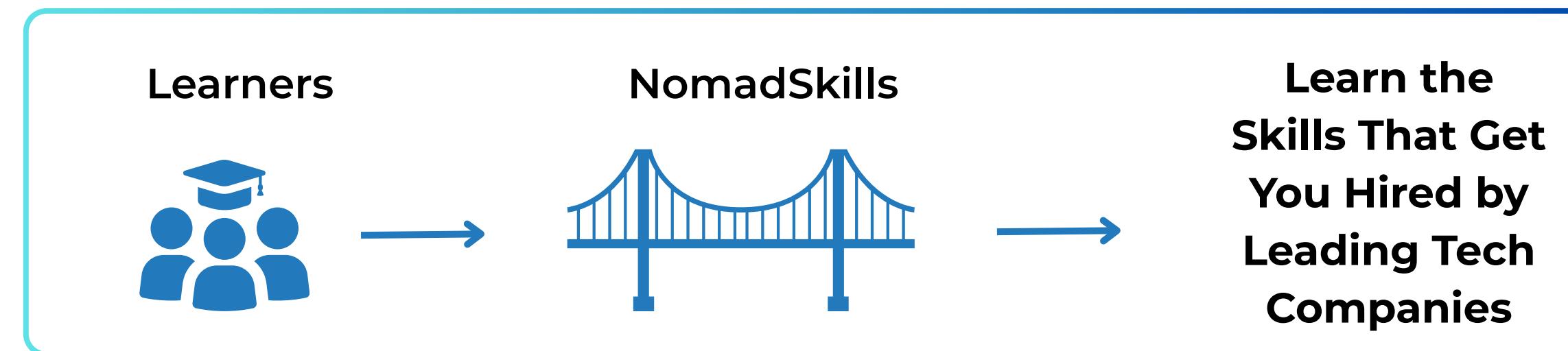
Why Industry-Ready Skills Matter

In today's tech-driven world, having just a degree isn't enough.

Students, recent graduates, and working professionals need **skills that match real industry needs** – especially in **Software Development, DevOps, Analytics and Data Science**. Traditional learning often misses hands-on experience.

That's where **NomadSkills** bridges the gap – through:

- Real-world projects & mock interviews
- Personalized learning and mentorship
- Career-focused upskilling for every learner



Your Tech Career Launchpad



Step 1

Learn



Step 2

Build



Step 3

Certified

Master In-Demand Technologies with Industry Experts

Immerse yourself in comprehensive learning experiences designed by industry professionals. Get hands-on with real-world projects and cutting-edge technologies.

Create Real-World Projects That Impress Employers

Transform your knowledge into tangible skills by building industry-standard projects that solve real problems and showcase your expertise.

Earn Industry-Recognized Certifications

Validate your skills with certifications that are respected by employers worldwide. Showcase your expertise and stand out in the job market.



Step 4

Hired

Get Ready for Your Dream Tech Job

We don't just train you - we prepare you for success. From resume building to interview preparation, we're with you until you land your dream job.

Master The Complete MERN Stack Journey

Learning Path

- Frontend Foundation**
4 Weeks Beginner
- React & Ecosystem**
6 Weeks Intermediate
- Backend with Node.js**
5 Weeks Intermediate
- Database with MongoDB**
4 Weeks Intermediate
- Full Stack Integration**
4 Weeks Advanced
- DSA & System Design**
6 Weeks Advanced

Frontend Foundation

Build responsive, modern websites from scratch

4 Weeks Beginner

What You'll Learn

- HTML5 & Semantic Web
- CSS3 & Flexbox/Grid
- JavaScript ES6+ Features
- DOM Manipulation
- Async JavaScript & APIs
- Modern CSS with Tailwind
- Responsive Design Principles

Hands-on Projects

- Portfolio Website
- Weather App
- Task Manager

Skills Gained

- HTML5
- CSS3
- JavaScript
- Tailwind CSS

Learning Path

 **Frontend Foundation**
⌚ 4 Weeks Beginner

 **React & Ecosystem**
⌚ 6 Weeks Intermediate

 **Backend with Node.js**
⌚ 5 Weeks Intermediate

 **Database with MongoDB**
⌚ 4 Weeks Intermediate

 **Full Stack Integration**
⌚ 4 Weeks Advanced

 **DSA & System Design**
⌚ 6 Weeks Advanced

React & Ecosystem

Create dynamic single-page applications

⌚ 6 Weeks

💻 Intermediate



What You'll Learn

 React Components & JSX

 State & Props Management

 Hooks (useState, useEffect, custom)

 Context API & State Management

 React Router & Navigation

 Component Lifecycle

 Performance Optimization

 Testing with Jest & React Testing Library

Hands-on Projects

 E-commerce Frontend

 Social Media App

 Admin Dashboard

Skills Gained

React

React Router

Context API

Jest

Learning Path

 **Frontend Foundation**
⌚ 4 Weeks Beginner

 **React & Ecosystem**
⌚ 6 Weeks Intermediate

 **Backend with Node.js**
⌚ 5 Weeks Intermediate

 **Database with MongoDB**
⌚ 4 Weeks Intermediate

 **Full Stack Integration**
⌚ 4 Weeks Advanced

 **DSA & System Design**
⌚ 6 Weeks Advanced

Backend with Node.js



Develop robust backend servers and APIs



⌚ 5 Weeks

프로그래밍
Intermediate

What You'll Learn

 Node.js Runtime Environment

 Express.js Framework

 RESTful API Design

 Middleware & Error Handling

 Authentication & Authorization

 File Upload & Processing

 API Security Best Practices

 WebSockets & Real-time Communication

Hands-on Projects

 REST API Server

 Chat Application

 File Sharing Service

Skills Gained

Node.js

Express.js

REST APIs

WebSockets

Learning Path

 Frontend Foundation
⌚ 4 Weeks Beginner

 React & Ecosystem
⌚ 6 Weeks Intermediate

 Backend with Node.js
⌚ 5 Weeks Intermediate

 Database with MongoDB
⌚ 4 Weeks Intermediate

 Full Stack Integration
⌚ 4 Weeks Advanced

 DSA & System Design
⌚ 6 Weeks Advanced

Database with MongoDB



Design and optimize database solutions

⌚ 4 Weeks

Intermediate



What You'll Learn

 NoSQL Database Concepts

 MongoDB CRUD Operations

 Mongoose ODM

 Data Modeling & Relationships

 Aggregation Framework

 Indexing & Performance

 Database Security

 Transactions in MongoDB

Hands-on Projects

 Database Design

 Data Analytics Setup

 User Management System

Skills Gained

MongoDB

Mongoose

Data Modeling

Aggregation

Learning Path

 Frontend Foundation
⌚ 4 Weeks Beginner

 React & Ecosystem
⌚ 6 Weeks Intermediate

 Backend with Node.js
⌚ 5 Weeks Intermediate

 Database with MongoDB
⌚ 4 Weeks Intermediate

 Full Stack Integration
⌚ 4 Weeks Advanced

 DSA & System Design
⌚ 6 Weeks Advanced

Full Stack Integration

Deploy full-stack applications to production

⌚ 4 Weeks

|||| Advanced



What You'll Learn

 MERN Stack Integration

 State Management with Redux

 Deployment Strategies

 CI/CD Pipelines

 JWT Authentication Flow

 API Integration & Error Handling

 Docker & Containerization

 Performance Monitoring

Hands-on Projects

 Complete MERN Application

 Deployment on Cloud

 CI/CD Setup

Skills Gained

JWT

Redux

Docker

CI/CD

Learning Path

 **Frontend Foundation**
⌚ 4 Weeks Beginner

 **React & Ecosystem**
⌚ 6 Weeks Intermediate

 **Backend with Node.js**
⌚ 5 Weeks Intermediate

 **Database with MongoDB**
⌚ 4 Weeks Intermediate

 **Full Stack Integration**
⌚ 4 Weeks Advanced

 **DSA & System Design**
⌚ 6 Weeks Advanced

DSA & System Design



Ace technical interviews and design scalable systems

⌚ 6 Weeks

|||| Advanced



What You'll Learn

✓ Time & Space Complexity

✓ Arrays, Strings & Linked Lists

✓ Stacks, Queues & Hash Tables

✓ Trees & Binary Search Trees

✓ Graph Algorithms

✓ Sorting & Searching Algorithms

✓ Dynamic Programming

✓ System Design Fundamentals

Hands-on Projects

📄 Algorithm Visualizer

📄 Problem Solving Portfolio

📄 System Design Docs

Skills Gained

Data Structures

Algorithms

System Design

Optimization

The NomadSkills Way: Learn, Build, Get Hired

After completing each module, learners attend a mock interview, build a mini project, and become eligible for internship or job placement opportunities.



Attend Mock Interviews

Practice real interview questions and get mentor feedback.



Build a Mini Project

Apply your learning through hands-on project work.



Internship & Job Opportunities

Qualify for internship and placement interviews with top tech companies.



The Real Work Framework – Experience How Real Teams Build Projects

At NomadSkills, learning goes beyond coding.

Each batch of 25-30 learners is divided into small teams (5-6 members), with assigned Team Leads and a Project Head. Together, they work on real-time projects - following the same process used in top tech companies.

Every team member has individual tasks, attends daily stand-up meetings, and gives daily progress updates - just like in a real job environment.

Through this simulation, learners experience the complete software development lifecycle (SDLC) - from requirement gathering to deployment, maintenance, and upgrades.

In every new project, roles rotate — helping everyone experience leadership, teamwork, and technical ownership.

The Real Work Framework

Example: MERN Stack Real-Time Project

Project Theme: Build a **Job Portal** using the MERN stack.

Team Structure:

- **Frontend Team** — UI/UX using React.js
- **Backend Team** — Node.js, Express APIs
- **Database Team** — MongoDB design & integration
- **DevOps/Deployment Team** — Deployment on AWS
- **Team Lead & Project Head** — Manage sprints, reviews, and team coordination

Workflow Simulation:

- Requirement gathering & task division
- Daily stand-up meetings and progress tracking
- Weekly review with mentor/project head
- Final deployment, documentation, and presentation



Interview Preparation at NomadSkills



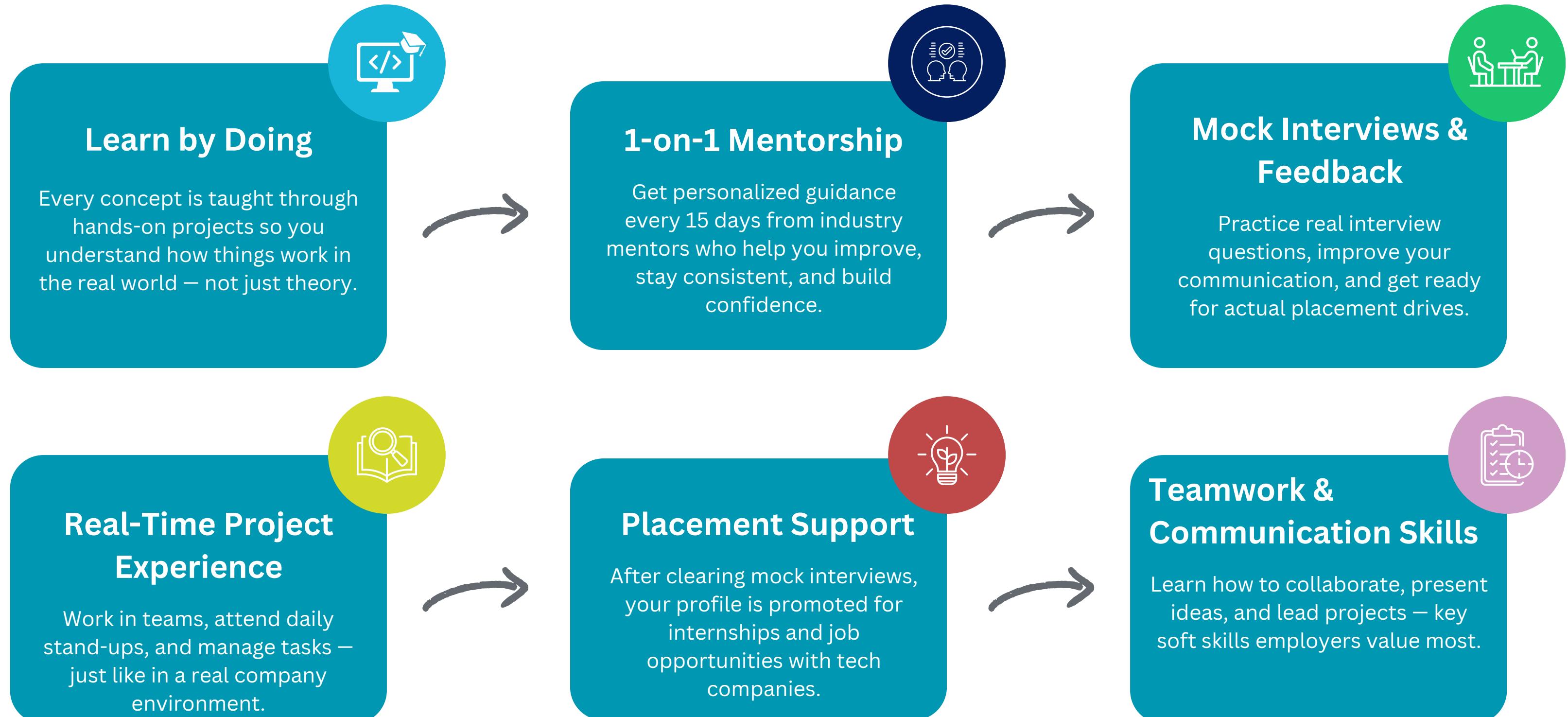
Practice real company-style interviews after each module.

Get personalized feedback and improvement tips from industry mentors.

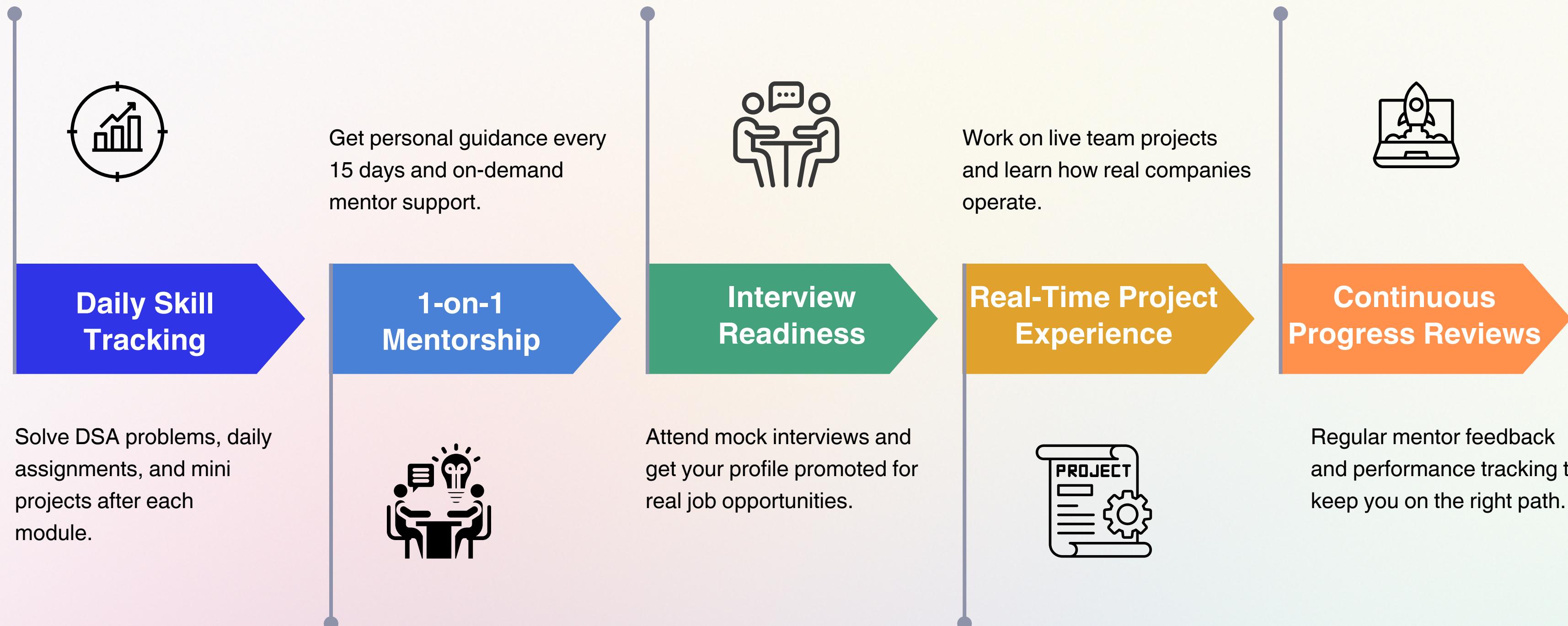
Create a strong GitHub portfolio and a professional resume that stand out.

Once you clear internal mock interviews, our team promotes your profile for internships and job opportunities.

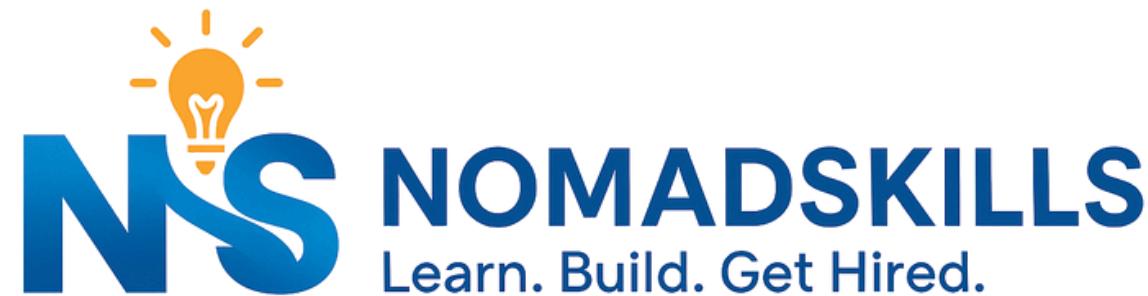
Benefits for Students at NomadSkills



How We Measure Success



Start your journey
with us today!



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contact@nomadskills.in

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+91 6301604347