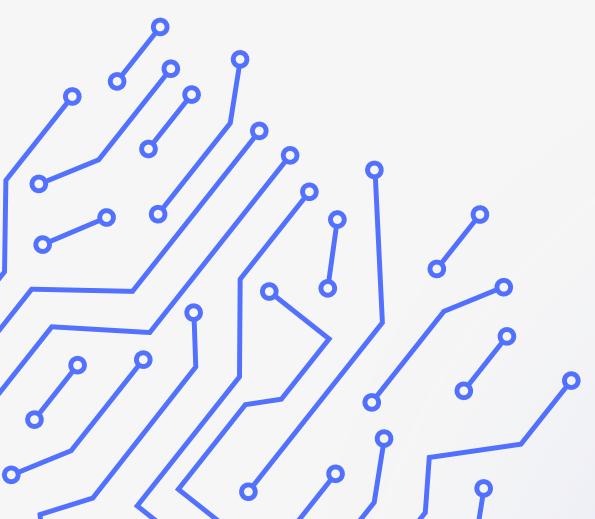


DATA SCIENCE & AI



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



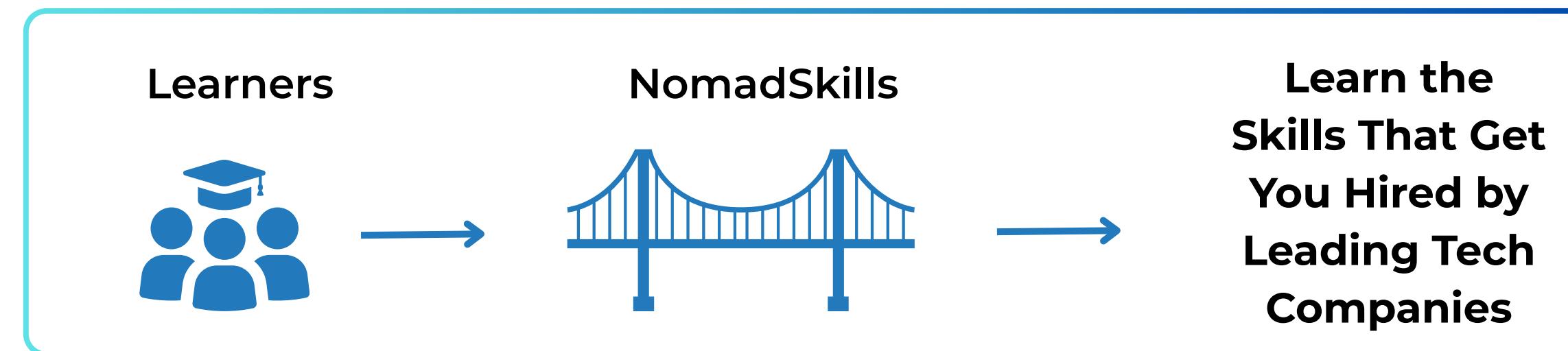
Why Industry-Ready Skills Matter

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

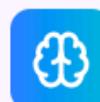
Hired

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.

Become an Industry-Ready AI Professional

📘 5-Month Learning Path



Data & Machine Learning Foundations



Advanced ML & Model Optimization



Deep Learning & Neural Networks



Natural Language Processing



Model Deployment & MLOps



Data & Machine Learning Foundations

Build strong programming, data, and ML fundamentals



oplay What You'll Learn

✓ Python syntax, loops, functions, OOP

✓ Data wrangling and EDA in Jupyter

✓ Data visualization with Seaborn, Plotly

✓ Probability & statistical distributions

✓ Supervised ML: regression & classification

✓ NumPy, Pandas, Matplotlib mastery

✓ SQL: SELECT, WHERE, GROUP BY, JOIN

✓ BI dashboards with Tableau/Power BI

✓ Hypothesis testing fundamentals

✓ Model evaluation metrics

oplay Hands-on Projects

📄 Data Cleaning & Exploratory Analysis

📄 Interactive Sales Dashboard

📄 Predictive Customer Churn Model

star Skills Gained

Python

SQL

Pandas

EDA

Machine Learning

5-Month Learning Path

 Data & Machine Learning Foundations

 Advanced ML & Model Optimization

 Deep Learning & Neural Networks

 Natural Language Processing

 Model Deployment & MLOps

Advanced ML & Model Optimization

Master unsupervised learning and model optimization techniques



What You'll Learn

 Unsupervised learning: K-Means, PCA

 Cross-validation techniques

 Model optimization strategies

 Ensemble methods

 Dimensionality reduction

 Feature selection & engineering

 Hyperparameter tuning

 Advanced evaluation metrics

 Clustering algorithms

 Model interpretability

Hands-on Projects

 Customer Segmentation Model

Skills Gained

Scikit-learn

Model Optimization

Feature Engineering

Clustering

5-Month Learning Path

 Data & Machine Learning Foundations

 Advanced ML & Model Optimization

 Deep Learning & Neural Networks

 Natural Language Processing

 Model Deployment & MLOps

Deep Learning & Neural Networks

Build and train deep neural networks for complex tasks



What You'll Learn

 Neural network fundamentals

 TensorFlow & PyTorch frameworks

 Activation functions & optimization

 Transfer learning

 Neural network training

 Feedforward & backpropagation

 CNN architectures for images

 Regularization techniques

 Computer vision applications

 Model architecture design

Hands-on Projects

 Image Classifier using CNN

Skills Gained

TensorFlow

PyTorch

CNN

Deep Learning

📘 5-Month Learning Path

 Deep Learning & Neural Networks

 Natural Language Processing

 Model Deployment & MLOps

 Data Engineering & Pipelines

 Generative AI & LLM Fundamentals

Natural Language Processing

Process and analyze text data using advanced NLP techniques



▶ What You'll Learn

 Text preprocessing & cleaning

 RNN, LSTM architectures

 Sentiment analysis

 Named Entity Recognition

 NLP pipelines

 Word embeddings & vectorization

 Attention mechanisms

 Text classification

 Text generation basics

 Transformer architectures

🌀 Hands-on Projects

 Twitter Sentiment Analyzer

★ Skills Gained

NLP

Text Processing

LSTM

Sentiment Analysis

5-Month Learning Path

Natural Language Processing >

Model Deployment & MLOps <

Data Engineering & Pipelines >

Generative AI & LLM Fundamentals >

Fine-Tuning & Custom LLM Applications >

Custom Project & Capstone <

Model Deployment & MLOps

Deploy and maintain ML models in production environments



What You'll Learn

Building APIs with FastAPI/Flask

Cloud deployment: AWS/GCP/Heroku

ML pipeline automation

Monitoring & logging

Model registry

Containerization with Docker

Model serving strategies

Version control for ML

CI/CD for machine learning

Production best practices

Hands-on Projects

ML API Service (End-to-End Deployment)

Skills Gained

FastAPI

Docker

AWS

MLOps

Deployment

📘 5-Month Learning Path

 Natural Language Processing >

 Model Deployment & MLOps >

 Data Engineering & Pipelines ▾

 Generative AI & LLM Fundamentals >

 Fine-Tuning & Custom LLM Applications >

Data Engineering & Pipelines

Build scalable data pipelines and engineering workflows



▶ What You'll Learn

 Data ingestion strategies

 Spark for big data processing

 Git/GitHub for version control

 Workflow orchestration

 Data warehouse concepts

 ETL/ELT workflows

 Data pipeline automation

 Data quality monitoring

 Stream processing

 Pipeline optimization

🕒 Hands-on Projects

 Automated Data Pipeline + Model Deployment

★ Skills Gained

Spark

ETL

Data Pipelines

Git

Automation

Customize Project & Content

5-Month Learning Path

 Model Deployment & MLOps >

 Data Engineering & Pipelines >

 Generative AI & LLM Fundamentals < >

 Fine-Tuning & Custom LLM Applications >

 Capstone Project & Career Readiness >

Generative AI & LLM Fundamentals

Understand and work with state-of-the-art generative AI models

What You'll Learn

 GPT, LLaMA model architectures

 Tokenization & embeddings

 Prompt engineering

 Model fine-tuning concepts

 AI safety & ethics

 Hugging Face ecosystem

 Vector databases

 Text generation techniques

 RAG architecture

 Multi-modal models

Hands-on Projects

 Custom Prompts & Embedding Search Lab

Skills Gained

GPT LLaMA

Hugging Face

Prompt Engineering

Vector DB

📘 5-Month Learning Path

 Model Deployment & MLOps >

 Data Engineering & Pipelines >

 Generative AI & LLM Fundamentals >

 Fine-Tuning & Custom LLM Applications < >

 Capstone Project & Career Readiness >

Fine-Tuning & Custom LLM Applications

Build custom generative AI applications with fine-tuned models



▶ What You'll Learn

✓ Fine-tuning with LoRA/PEFT adapters

✓ Custom chatbot development

✓ Model optimization for deployment

✓ Evaluation of LLM applications

✓ Knowledge integration

✓ Retrieval Augmented Generation (RAG)

✓ Document Q&A systems

✓ Custom training pipelines

✓ Multi-turn conversations

✓ Application architecture

⌚ Hands-on Projects

📄 Custom Q&A or AI Assistant App

★ Skills Gained

Fine-tuning

RAG

Chatbots

LoRA

PEFT

📘 5-Month Learning Path

 Model Deployment & MLOps >

 Data Engineering & Pipelines >

 Generative AI & LLM Fundamentals >

 Fine-Tuning & Custom LLM Applications >

 Capstone Project & Career Readiness ▾

Capstone Project & Career Readiness

Graduate with deployable projects and career-ready skills



▶ What You'll Learn

 End-to-end AI product development

 Predictive + generative AI integration

 Mock interviews & DSA prep

 GitHub portfolio development

 Technical communication

 Data collection & preprocessing

 Cloud hosting & CI/CD

 Resume & LinkedIn optimization

 Project presentation skills

 Career mentorship

🕒 Hands-on Projects

 AI-Powered Customer Support System

 Document Summarizer + Q&A

 Recommender + Chatbot System

★ Skills Gained

End-to-End Development

Portfolio Building

Interview Prep

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.

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

The Real Work Framework

Example: Data Science & AI Real-Time Project

Project Theme: AI-Powered Student Performance Prediction System

Team Structure:

- **Data Ingestion & Collection Team:**
 - Collect and clean student data from multiple sources (LMS, attendance records, assignments).
 - Prepare structured datasets for model training.
- **Data Engineering Team:**
 - Create ETL pipelines for data transformation and integration.
 - Set up databases or data lakes for storing large datasets.
- **ML/AI Team:**
 - Develop predictive models to analyze student performance.
 - Use algorithms like regression, random forest, or neural networks.
- **Visualization & Insights Team**
 - Create dashboards using Power BI, Tableau, or Python (Plotly).
 - Show trends, predictions, and actionable insights for mentors.
- **MLOps / Deployment Team**
 - Deploy ML models and dashboards using AWS, Azure, or Streamlit.
 - Automate updates and monitor model performance.
- **Team Lead & Project Head –** Manage sprints, reviews, and team coordination

Workflow Simulation:

- Requirement Gathering & Role Division**

Define project goals (accuracy, interpretability) and assign team roles.

- Data Collection & Preprocessing**

Gather and clean raw data; handle missing values and outliers.

- Model Development & Validation**

Build and train ML models; evaluate with metrics like accuracy and F1-score.

- Visualization & Reporting**

Develop dashboards to show model predictions and insights.

- Deployment & Review**

Deploy the final system; present results in a live demo and get mentor feedback.

Interview Preparation at NomadSkills



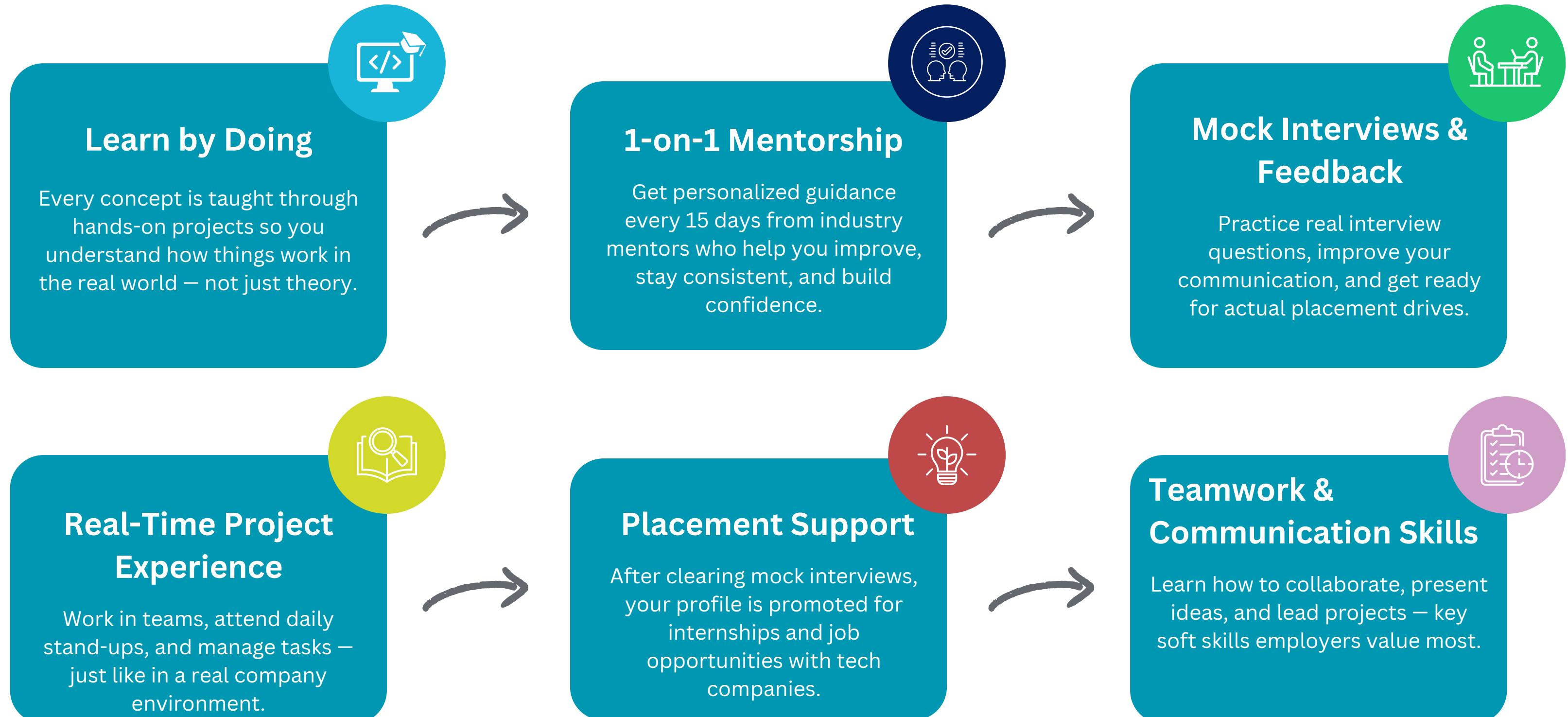
Practice real company-style interviews after each module.

Get personalized feedback and improvement tips from industry mentors.

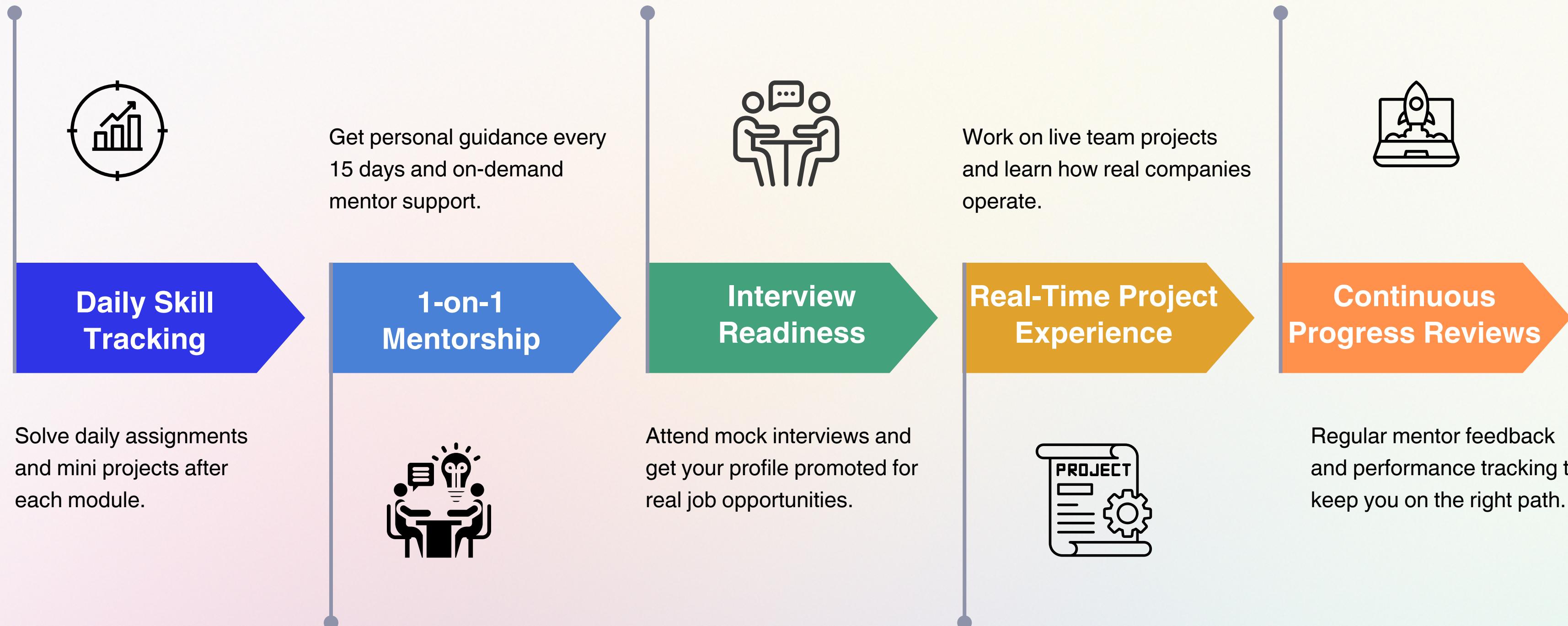
Create a strong GitHub portfolio and a professional resume that stand out.

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

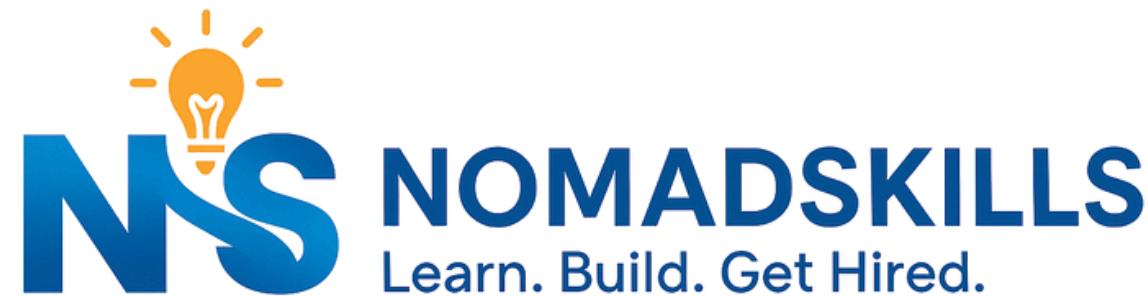
Benefits for Students at NomadSkills



How We Measure Success



Start your journey
with us today!



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