

Here's your **18-month step-by-step roadmap** to secure an **18+ LPA job before your final year in 2027**, overcoming AI threats like **DeepSeek** and automation risks.

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### ☀️ Which Programming Language to Master for 2027?

Based on **AI advancements, automation trends, and industry demand**, the most future-proof language is **Python**.

#### ♦ Why Python?

- ✅ **Dominates AI, ML, and Data Science** – Used in **LLMs, Deep Learning, and NLP**
- ✅ **Strong DSA Support** – Python is widely used in **Leetcode, Codeforces, and coding interviews**
- ✅ **Fast Prototyping for Startups** – AI startups, FAANG, and unicorns rely on Python
- ✅ **Growing Open-Source Ecosystem** – **TensorFlow, PyTorch, Hugging Face, LangChain**

Since **AI-powered coding assistants** (e.g., DeepSeek) might automate basic coding, **mastering Python with AI expertise will make you irreplaceable**.

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### 📅 Phase 1: Mastering DSA & Competitive Coding (Months 1-6)

- ✅ **Primary Goal:** Crack coding rounds of **Google, Amazon, AI Startups** using **Python**.

#### 📄 Roadmap:

1. **Pick a DSA Platform** – (**Leetcode + Codeforces**)
2. **Consistency:** Solve **1-2 problems daily** (Easy → Medium → Hard)
3. **Core Topics:**
  - Arrays, Strings, Linked Lists, Stacks, Queues
  - Recursion, Backtracking, Hashing
  - Trees, Graphs, DP, Greedy, Bit Manipulation
4. **Recommended Plan:**
  - [Neetcode 150](#) (Best for Python-based DSA)
  - [Striver's DSA Sheet](#)
  - [Codeforces \(Target 1500+ Rating\)](#)
5. **Join Python CP Contests** (Google Kickstart, Codeforces, Atcoder)
6. **System Design (Low Level + High Level)**
  - [Grokking System Design](#)

🔥 **By Month 6:** You should be **cracking DSA rounds** of **Amazon, Google, and AI startups** using **Python**.

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## Phase 2: AI Mastery & Industry-Ready Projects (Months 7-12)

✓ **Primary Goal:** Master AI, Generative AI, LLMs, and Full-Stack AI Development.

 **Roadmap:**

### (A) Learn AI & ML (Using Python)

#### 📌 **Best Courses (Python-Focused)**

- [Machine Learning Specialization – Andrew Ng](#)
- [Deep Learning Specialization – Andrew Ng](#)
- [Generative AI with LLMs](#)

### (B) Build AI Projects (Using Python & LLMs)

- ◆ Python-Based AI Resume Screener (NLP + LLMs)
- ◆ AI-Powered Code Auto-Completion (DeepSeek-like model using Python)
- ◆ AI-Powered Chatbots for Companies (Python + OpenAI API + LangChain)
- ◆ Full Stack AI SaaS Product (Deploy it on AWS + Streamlit/Django)

### (C) Open Source & Kaggle (Python-Focused AI Contributions)

- ✓ Contribute to **Hugging Face, Google AI, Meta AI** (Python-based AI repos).
- ✓ **Join Kaggle Competitions** – Python-based AI model building.

🔥 **By Month 12:** You should have **3 AI projects on GitHub + Strong Kaggle Contributions** in Python.

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## Phase 3: Internship at Tier-1 Startup or MNC (Months 12-15)

✓ **Primary Goal:** Secure a **Python-based AI internship** leading to a **Pre-Placement Offer (PPO)**.

 **Roadmap:**

1. **Apply for AI Internships (Python-Focused)**
  - Use **LinkedIn, AngelList, Internshala, Company Portals**
  - Target **FAANG, AI Startups, Unicorns (DeepMind, OpenAI, Hugging Face, NVIDIA)**
2. **Cold Email HRs & Founders**
  - Write a **Python-based AI resume** with GitHub, Kaggle, LinkedIn, and AI projects.
3. **Network in AI/Tech Circles**
  - Join **Python AI Communities (Discord, Twitter, LinkedIn Groups)**

🔥 **By Month 15:** You should have **1-2 Python-based AI internships** with a **PPO offer**.

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## Phase 4: Full-Time Job Preparation (Months 15-18)

✅ **Primary Goal:** Crack AI job interviews using **Python DSA + AI projects** and get **18+ LPA offers**.

 **Roadmap:**

1. **Revise DSA & System Design (Python-Based Interview Prep)**
  - Mock interviews using **Pramp, InterviewBit**
2. **Apply to AI-Focused Companies (Python Jobs)**
  - **Google, OpenAI, Microsoft AI, DeepMind, NVIDIA, Hugging Face, FAANG**
  - **Python-Based AI Startups (Cred, Razorpay, Zeta, Flipkart, PhonePe)**
3. **Negotiate Salary (Python Developers in AI earn ₹18-40 LPA)**

🔥 **By Month 18:** You should have a **Python AI Engineer offer at ₹18+ LPA**.

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 **Bonus: How to Stay Ahead of DeepSeek & AI Threats?**

1. **Master Python for AI-Generated Code Review & Optimization**
2. **Learn AI-Driven System Design (LLMs + API Integrations in Python)**
3. **Be the AI Manager, Not Just an Engineer (AI Product Management in Python)**

♦ **Recommended Course:** [AI Product Management – Duke](#)

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✅ **Final Outcome (After 18 Months, Using Python)**

- ✅ **Python DSA Mastery (Leetcode 2000+, Codeforces 1500+)**
- ✅ **Built Python-Based AI Projects (Generative AI, LLMs, SaaS AI)**
- ✅ **Completed Python AI Internships at Tier-1 startups/MNCs**
- ✅ **Landed a Python AI Engineer role with ₹18+ LPA in FAANG/AI startups**

 **Follow this roadmap, and you'll dominate Python-based AI jobs!** 🔥 Want help with Python projects, LinkedIn, or Resume?

Here's an **elaborate, highly detailed 3-hour daily study plan** to help you **secure an 18+ LPA job before 2027** while staying ahead of **AI threats like DeepSeek and automation risks**. 🚀

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### 🔥 3-Hour Daily Study Plan (Weekdays)

Time Slot	Task	Focus Area	Resources
1st Hour	DSA & Competitive Programming	Solve 2 Leetcode (Medium/Hard) or 1 Codeforces Contest Problem	<a href="#">Leetcode 150</a> , <a href="#">Striver's DSA Sheet</a> , <a href="#">Codeforces</a>
2nd Hour	AI/ML Learning + Projects	Learn LLMs, Generative AI, and build real-world AI projects	<a href="#">Andrew Ng's ML Course</a> , <a href="#">Deep Learning Specialization</a> , <a href="#">Generative AI with LLMs</a>
3rd Hour	Internship & Job Prep	Apply to internships, work on GitHub projects, and network on LinkedIn	LinkedIn, AngelList, Internshala, Open Source Contributions (Google AI, Hugging Face)

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### ◆ Day-Wise Plan for Maximum Growth

#### 📅 Monday - Friday (Structured Study Plan for Rapid Progress)

#### 🕒 Hour 1: DSA & Competitive Coding (60 min)

✅ **Monday - Wednesday:** Solve 2 Leetcode **Medium/Hard** problems from different topics

✅ **Thursday:** Solve 1-2 **Graph & Dynamic Programming** questions (most asked in FAANG)

✅ **Friday:** Codeforces **contest problem-solving & analysis**

✅ **Weekend:** Atcoder/Codeforces Contests + System Design Prep

🎯 **Target:** Leetcode Rating **2000+**, Codeforces **1500+** by 12-15 months

#### Weekly DSA Topic Breakdown:

Week	Topics to Focus On
Week 1-2	Arrays, Strings, Linked Lists
Week 3-4	Stacks, Queues, Hashing
Week 5-6	Recursion, Backtracking
Week 7-8	Trees, BSTs, Heaps

## Week      Topics to Focus On

Week 9-10   Graphs (BFS, DFS, Dijkstra)

Week 11-12   Dynamic Programming (Kadane's, LCS, Knapsack)

Week 13-15   Greedy, Bit Manipulation

Week 16+    Mixed Topic Practice + Mock Tests

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### Hour 2: AI/ML Learning & Projects (60 min)

#### Weekly AI Learning & Implementation Plan

##### Months 1-6:

- **Weeks 1-3:** Learn **Supervised ML** (Linear Regression, Decision Trees, SVMs)
- **Weeks 4-6:** Learn **Unsupervised Learning** (Clustering, PCA)
- **Weeks 7-9:** Learn **Deep Learning** (ANNs, CNNs, RNNs, Transformers)
- **Weeks 10-12:** Study **NLP** (Hugging Face, LLMs, Chatbots, BERT, GPT)
- **Weeks 13-15:** Build **AI Resume Screener** (ML/NLP)
- **Weeks 16-18:** Build **LLM-powered Code Auto-Completion**

##### Months 7-12:

- **Weeks 19-21:** Work on **End-to-End AI SaaS Product**
  - **Weeks 22-24:** Deploy projects on **AWS/GCP**
  - **Weeks 25-27:** Publish **AI Research Paper** (Kaggle/Open Source)
  - **Weeks 28-30:** Master **LLM Fine-Tuning** (Train Your Own GPT model)
  - **Weeks 31-36:** Apply AI knowledge to **real-world startup projects**
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### Hour 3: Internship & Job Prep (60 min)

##### Months 1-6:

- **LinkedIn Growth:** Post weekly AI project updates, connect with **FAANG** recruiters
- **Cold Emailing HRs:** Apply to **Google, OpenAI, Hugging Face, NVIDIA** internships
- **Apply for Remote Internships:** Use **AngelList, Internshala**
- **Mock Interviews** (Pramp, InterviewBit)

##### Months 7-12:

- **Contribute to Open Source** (Google AI, Meta AI, Hugging Face)

- Publish AI Blogs & Research Papers
- Internship at AI startups (PPO chances higher)

✅ Months 12-18:

- Full-Time Job Applications
- Mock Interviews with FAANG Engineers (Pramp, InterviewBuddy)
- Negotiate Offers & Choose the Best Package (₹18LPA+ target)

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🔥 Weekend (Bonus Hours for Extra Growth)

Time Slot Task

**Saturday** System Design + Resume Building + LinkedIn Networking

**Sunday** Mock Interviews (DSA, AI Projects, HR Prep)

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🚀 Final Goals by 2027

- ✅ Cracked DSA + AI interviews at top firms
- ✅ Completed AI internships at high-paying startups
- ✅ Built AI projects that outshine generic developers
- ✅ Landed a Tier-1 job offer with ₹18LPA+ package

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📌 Key Strategies to Stay Ahead of AI Threats (DeepSeek, Automation)

- ♦ Master AI-Generated Code Review & Optimization (AI won't replace you if you optimize AI!)
- ♦ Learn AI-Driven System Design (Understand how LLMs integrate with real-world applications.)
- ♦ Be the AI Manager, Not Just an Engineer (Upskill in AI Product Management & AI Automation.)

🎯 Recommended Course: [AI Product Management – Duke](#)

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🚀 Follow this plan rigorously for 18 months, and you will secure a Tier-1 AI/ML job with ₹18+ LPA!

Want help with **customizing this roadmap** based on your strengths and weaknesses? 🔥