

Overview of Coding Ninjas and the Job Bootcamp

- Coding Ninjas has an 8-year legacy of success in empowering coders to achieve their dreams¹.

- They have over 1.5 Lac+ learners who have cracked dream roles at top tech companies¹.

- Over 1,400+ Alumni are in MAANG (an acronym for major tech companies) & more in 103/111 Unicorns¹.

- The highest CTC (Cost to Company) achieved after completing the course was 1 Cr+¹.

- The average salary hike via their placement cell is 128%¹. Source² also states the average salary hike is 128%.

- 60% of learners have achieved a 2X salary hike².

- 95% of placements are in product-based companies². Source³ also states 95% placements in product companies.

Why Coding Ninjas is #1¹:

1.

Alumni coverage: Students are from 4,400+ colleges and professionals from 1,100+ companies¹.

2.

Preferred upskilling platform: It is preferred by Tech working professionals, NIRF Top 100 college students, and First product-based job seekers¹.

3.

Career transitions enabled: This includes transitions from Non-tech to tech, Service to Product, Career break to tech job, and Tier 2/3 college to MAANG¹.

Why Data Analytics is a Promising Career Option⁴:

- Long-Term Industry Growth: The Indian data analytics market is projected to grow at a compound annual growth rate (CAGR) of 25% from 2024 to 2030, according to MARKET RESEARCH FUTURE⁴.

- Data Analytics Talent Demand: By 2030, data analytics roles will constitute a significant portion of the 1.3 million new tech jobs anticipated in India, reflecting the long-term importance of this field, according to the World Economic Forum⁴.

- Future Salary Trends: The average salary for data professionals in India could increase by 10-15% annually over the next decade, driven by increasing demand and skill shortages, according to ISF⁴.

- Increased Investment in Analytics: A significant share of the \$146 billion global spend on data analytics and business intelligence by 2027 will happen in India, according to Gartner⁴.

- Expansion of Analytics Roles: The need for advanced analytics skills will grow by 40% by 2030, as companies rely even more on data to give them a competitive edge, according to Deloitte⁴.

The Coding Ninjas Advantage: Learn - Excel - Standout⁵:

This is a 3-stage learning model:

1.

Learn Stage: This involves a Seamless Learning Journey where students attend lectures, engage in problem-solving modules, and work on projects that mimic real-world scenarios⁵. Progress tracking is enabled through visual dashboards⁵.

2.

Excel Stage: This stage focuses on Refinement of Skills with additional resources tailored to help master concepts⁵. It includes Practice on Code 360 for additional problems, challenges, and resources, and Preparation for Tech Interviews with practice and interview prep platform⁵.

3.

Standout Stage: The goal is Building a Strong Tech Profile on Code 360 to stand out to recruiters⁵. This involves participating in contests, challenges, hackathons, and events⁵. It also includes Highlighting Your Profile: applying for jobs on Naukri.com with a system-generated report highlighting skills to recruiters⁵.

Your 6 Month Journey To Success⁶:

The journey depicted starts with learning fundamental tools and progresses towards placement preparation and securing a top tech role. The key skills/areas covered in this path are:

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Excel⁶

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SQL⁶

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Python⁶

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Data Visualization⁶

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Exploratory Data Analysis⁶

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Naukri profile boost⁶

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Placement Prep (Mock Interviews, Soft skills prep, Resume review)⁶

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Top Tech Role⁶

Skills Acquired by the End of the Program^{7...}:

Upon completing the program, you will be able to:

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Data Understanding and Analysis Frameworks: Analyze various types of data and apply appropriate frameworks, working on projects like assessing National Air Quality⁷⁹.

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Excel for Data Analytics: Utilize Excel for data preparation, analysis, and storytelling, demonstrated through minor projects and case studies⁷⁹.

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Data Visualization: Create meaningful visualizations using Power BI and present data insights effectively, demonstrated through projects like analyzing e-commerce orders⁷⁹.

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Data Storytelling: Craft compelling narratives from data analyses, ensuring findings are communicated clearly and effectively, as seen in your projects and case studies⁷⁹.

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SQL for Data Retrieval and Manipulation: Write SQL queries to retrieve, filter, and join data from databases, applied to case studies like retail and e-commerce analytics⁷⁹. This also includes SQL Joins, Constraints, and Modeling, as well as Advanced SQL Techniques (Window Functions, CTEs, etc.)⁹.

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Python Programming for Data Analytics: Write Python code for data analysis, including handling data types and structures, demonstrated through projects like analyzing IPL data⁷⁹. This includes Data Manipulation in Python (Pandas, Numpy) and Data Visualization in Python (Matplotlib, Seaborn)⁹.

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Python Data Libraries: Use libraries such as NumPy, Pandas, and Matplotlib to perform data analysis and create visualizations, with projects including COVID-19 and PhonePe transaction analysis⁸.

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Statistical Analysis: Perform descriptive and inferential statistical analysis, including hypothesis testing, to draw insights from data, applied in various case studies⁸⁹. This also covers Probability and Statistical Tests⁹.

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Exploratory Data Analysis (EDA): Conduct EDA to transform, clean, and select features from datasets, exemplified by working with datasets like Pro-Kabbadi⁸⁹.

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Basic Machine Learning Concepts (Optional): Gain foundational knowledge in machine learning, including regression techniques and predictive analytics, enabling you to explore advanced data modeling⁸.

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Business Intelligence Reporting⁹.

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Data Security (Row Level Security)⁹.

Coding Ninjas Placements^{3...}:

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Top MNCs, Unicorns, and high growth companies hire learners from Coding Ninjas¹⁰.

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Examples of Established Businesses hiring include DELL Technologies, SIEMENS ENERGY, Mastercard, HUGHES SYSTIQUE, Hitachi Vantara, Ebix, BlueConch Technologies, and Indiamart¹⁰.

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Examples of Hypergrowth Startups hiring include HEALTHKART, TATA 1mg, dailyhunt, CoinDCX, ofBusiness, NOBROKER.COM, Zimyo, toppr, REBEL FOODS, Codeyoung, and Wingify¹⁰.

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The Coding Ninjas Placement Cell facilitates 800+ job openings every month at last count³.

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They offer a vast array of placement opportunities across companies of all sizes and industries, including top product-based companies and unicorns³.

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They have a collaboration with Naukri.com & NSDC, a Skill India initiative, which further expands access to potential career opportunities³.

3 Ways To Get Placed¹⁰:

1.

Coding Ninjas Job Portal: Offers 800+ job openings¹⁰. Roles include Business Analyst, Data Analyst, Product Analyst, Marketing Analyst, Financial Analyst, etc.¹⁰.

2.

Naukri: Boosted profile visibility to recruiters¹⁰. Special 'proof of work' coding profile shared with recruiters¹⁰¹². Coding Ninjas has an exclusive partnership with Naukri.com, described as India's #1 Job Portal¹². Your Coding Ninjas approved profile is highlighted to recruiters on Naukri's platform & visually stands out versus others¹². Your Coding Ninjas Skill Report will be proof of real work & skill to recruiters¹². You can Standout with Coding Ninjas approved mock interviews of top companies¹².

3.

NSDC Job Portal: As an NSDC certified bootcamp, get access to jobs on the NSDC Job Portal¹⁰. Placement Process¹¹:

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Eligibility criteria include Technical Skills (Match the technical skill level by completing 80% of the relevant course module, Clear a mock technical interview round) and Soft Skills (Clear a soft skills evaluation round)¹¹.

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Placement Training includes In-Classroom Learning (Collect skill tags by completing 80% of your course modules), Dedicated Soft Skill Training (Receive targeted training aimed at enhancing communication, presentation, and interpersonal skills), Mock Interviews & Resume Reviews (Gain valuable insights through mock interviews & resume reviews conducted by industry experts from MAANG and other top product companies), and Periodic Evaluations (Undergo regular assessments to monitor and boost your progress)¹¹.

Advice from the Faculty¹³:

The faculty note provides guidance for students starting the Data Analytics journey:

1.

Master Prerequisites: Essential to nail the basics of Data Analytics before getting ahead¹³. Revisit old topics for a refresher¹³.

2.

Refer to Official Documentation: Data Analytics is constantly changing, so staying updated is important¹³.

3.

Practice Regularly: Don't just watch, roll up your sleeves and practice¹³.

4.

Complete Assessments and Projects: Finish these before rushing ahead; they ensure understanding¹³.

5.

Work on Un-guided Projects: Challenge yourself with projects provided during the course¹³. Explore new paths and surprise yourself¹³.

6.

Collaborate and Contribute: Post-course, team up with fellow learners on open-source projects¹³.

Learning Curriculum - Developing Hard Skills^{14...}:

The curriculum is broken down into modules with specific topics and associated case studies:

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Introduction to Data Analytics and Excel: Topics include Data Cleaning, Operations, Functions, Data Extraction, Lookups, AI tools in Excel, Data Cleaning in Excel, Handling Missing Values and Outliers, Charts, Methods of Data Analysis, Power Query, Data Transformation¹⁴. Case Studies: National Air Quality, US Healthcare Dataset, India CPI Inflation¹⁴.

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Data Visualization with Power BI: Topics include Introduction to Power BI and Business Intelligence, Basic functionality, Data Transformations, Data Cleaning, AI Tools, Advanced Power Query and Data Modelling, DAX Functions, Advanced DAX Functions, Hierarchy and visualization, Creating Compelling Reports, Data Analysis and Data Storytelling, Features in Power BI Service, Row Level Security and KPIs¹⁴. Case Studies: IT Department PowerBI Dashboard, E-com Orders¹⁴.

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Analytics with SQL: Topics include Introduction to SQL and databases, Fundamentals of SQL and Data, Management in MySQL Workbench, Advanced SQL Query Techniques, Retrieval and Documentation, CRUD Operations and Data Integrity, Database Schema Management, Operations, String Operations, Aggregate Functions, Joins, Constraints and ER Modelling, Advanced Query Writing using Joins and Aggregate Functions, Case Statements for Conditional Logic and Aggregation, Common Table Expressions (CTEs) and Subqueries, Subqueries in SQL, Date Manipulation, Data Types and Functions, Fundamentals of Window Functions, Views, Indexes and Data Partitioning, Stored Procedures and Triggers, TCL and DCL Commands¹⁵. Case Studies: Retail Store, E-Com Business¹⁵.

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Python Programming: Topics include Introduction to Python and AIML, Fundamentals of Python, Data Types, Operators, Strings, Data Structure, Conditional Statements, Looping Statements, Control Transfer Statements, Functions, Exception Handling, Modules, File Handling, Overview of library, Numpy, Pandas, Data structures and Series Management using Pandas, Data Manipulation and Analysis in Pandas, Selection, and Aggregation, Data Visualization using Matplotlib and Seaborn, Concepts and Application of OOPS, Database Connectivity using Libraries¹⁶. Case Studies: Covid-19, PhonePe Digital Payments¹⁶.

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Statistics & EDA with Python: Topics include Introduction to Statistics, Types of Data and Data Collection, Sampling Techniques & Measures of Central Tendency, Descriptive Statistics: Measures of dispersion, Introduction to Probability, Probability Distributions, Central Limit Theorem and Sampling, Distributions and their properties, Hypothesis Testing, Confidence Intervals, Statistical Tests and uses for bivariate analysis¹⁷. Case Studies: Loan Default, Pro Kabaddi League, Superstore Sales¹⁷.

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Generative AI (Live lectures): Topics include Introduction to Generative AI, Prompt Engineering Techniques, Generative AI in Excel, Python Development with Generative AI, Generative AI for SQL Coding, Generative AI for Data Analysis and Visualization¹⁷. Case Study: Credit Risk Modelling¹⁷. How is AI being used for Data Analysis¹⁸:

The sources mention AI applications within various tools covered in the program:

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Excel: Analyze Data (Spot trends and outliers by asking simple questions), Flash Fill (Recognizes patterns and applies them to similar rows automatically)¹⁸.

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Power BI: Advanced Visualizations (AI provides clear, interactive visuals to make data insights more accessible), Constant Improvement (AI capabilities in Power BI are advanced and continuously evolving)¹⁸.

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SQL: Query Generation (AI tools like Photon Natural Language by Salesforce create SQL queries based on prompts)¹⁸. Basic SQL Knowledge Needed: While AI simplifies querying, familiarity with SQL basics is beneficial¹⁸.

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Python: Data Manipulation (Use Pandas for quick data cleaning and structuring), Predictive Analytics (Build machine learning models with Scikit-learn)¹⁸.

More applications will be covered in the program¹⁸.

Real World - Case Studies¹⁹²⁰:

The program includes various real-world case studies:

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National Air Quality: Analyze national air quality data focusing on PM 2.5 and PM 10 levels to understand pollution trends and regional variations, and evaluate potential health impacts¹⁹.

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US Healthcare Case Study: Investigate healthcare data to identify prevalent conditions, cost trends, and hospital admissions across demographics, and provide recommendations for reducing costs, managing resources, and improving patient outcomes¹⁹.

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India CPI Inflation: Examine India's inflation trends through Consumer Price Index data, focusing on key sectors like food, energy, and transport, assess year-over-year inflation patterns, the impact of global events and COVID-19's influence on essential sectors, offering insights into India's economic dynamics¹⁹.

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Ecom Orders: Analyze 2023 e-commerce data from a Bangalore-based mobile accessories company serving 14 countries, explore order methods, customer segments, and targeted sales teams to improve sales strategies and boost global customer engagement¹⁹.

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Retail Analytics: Use data to address product performance, customer segmentation, and behaviour analysis, gain insights from sales and customer data to optimize inventory and improve customer engagement¹⁹.

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E-Com Company: Analyze customer insights, product performance, and sales trends to enhance market segmentation, inventory management, and sales strategy, applying SQL to uncover actionable insights²⁰.

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COVID-19 Analysis: Explore the global impact of COVID-19 using datasets on cases, deaths, and recoveries, enhancing skills in Python for data manipulation, cleaning, and visualisation, offering insights into pandemic trends²⁰.

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PhonePe Transactions: Analyze PhonePe transaction data along with demographic details from Indian states and districts, examine trends in transactions, device usage, and demographic correlations²⁰.

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Pro Kabaddi Dataset: Conduct Exploratory Data Analysis (EDA) on Kabaddi match events to uncover insights on gameplay and player performance using Python libraries like Pandas, NumPy, and Matplotlib²⁰.

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Superstore Sales: Analyze the Superstore Sales dataset to uncover trends and insights critical for retail decision-making, applying advanced data techniques for actionable business insights²⁰.

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Loan Default Analysis: Examine loan application data to identify factors influencing defaults by analysing demographic, financial, and behavioural attributes, helping inform risk management strategies²⁰.

Tools Covered²¹:

The program covers a variety of essential tools:

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ChatGPT²¹

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SciPy²¹

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Gemini²¹

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Python²¹

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NumPy²¹

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Power BI²¹

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Excel²¹

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MySQL²¹

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Pandas²¹

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Scikit-learn²¹

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Llama 3²¹

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Google Colab²¹

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Jupyter²¹

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Statsmodels²¹

Advice from Alumni²²²³:

The brochure includes summarised notes from various Coding Ninjas alumni after completing the bootcamp. Key advice points include:

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Impostor Syndrome: Reminding oneself that it's okay to not know everything and that learning is continuous²². Seeking support helps build confidence²².

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- Prioritising Skill Development: Focusing on core skills and building a strong foundation in programming²².
- Practising on Code 360: Utilizing the resources available on Code 360 for targeted practice enhances problem-solving skills and coding proficiency²². Code 360 is described as a free resource beyond classroom learning²².
- Time Management: Quantitatively breaking down tasks, setting deadlines, eliminating distractions, and rewarding yourself for completing tasks on time²².
- Utilizing Teaching Assistants: Reaching out to teaching assistants and using hint videos helps clarify doubts and gain deeper insights²³. Asking for help is a sign of strength²³.
- Maintaining momentum with consistent revision: Setting a daily coding goal helps build a habit and keep skills sharp²³.
- Trusting the Process: Staying committed to goals, overcoming obstacles, and achieving success by understanding that each experience contributes to overall growth²³. Embracing challenges leads to learning and growth²³.
- Focus on problem solving: Understanding concepts but also practicing extensively to solve problems²³. If stuck, shifting to a lower level to regain confidence²³.
- NSDC Certificate²⁴:
- Coding Ninjas has joined hands with NSDC (National Skill Development Corporation), a Skill India initiative by the Government of India to promote skill development²⁴.
- The Coding Ninjas Job Bootcamp is NSDC approved²⁴.
- The partnership ensures enhanced employability and better career prospects for students²⁴.
- Job Bootcamp graduates will receive NSDC-approved certificates, granting them access to exclusive job opportunities on the NSDC portal²⁴.
- Certificates Awarded²⁵²⁶:
- Module wise certificates: Upon completing each module, you will receive a certificate recognizing your achievement²⁵. A Certificate of Completion is awarded for scores of 70%+, and a Certificate of Excellence for scores of 90%+²⁵. These certificates showcase your expertise and validate your skills in each area²⁵. Examples are shown for modules such as Introduction to Data Analytics & Excel, BI Fundamentals, Data Visualization, Python Programming, Python Data Libraries, Statistics, Exploratory Data Analysis, and Machine Learning²⁵.
- Program Certificate: Coding Ninjas will award a certificate of successful completion to participants who complete the program successfully with 70% of the score in the evaluation²⁶. You should have watched at least 70% of the course content in your classroom to be considered eligible²⁶.

