

GreyCampus

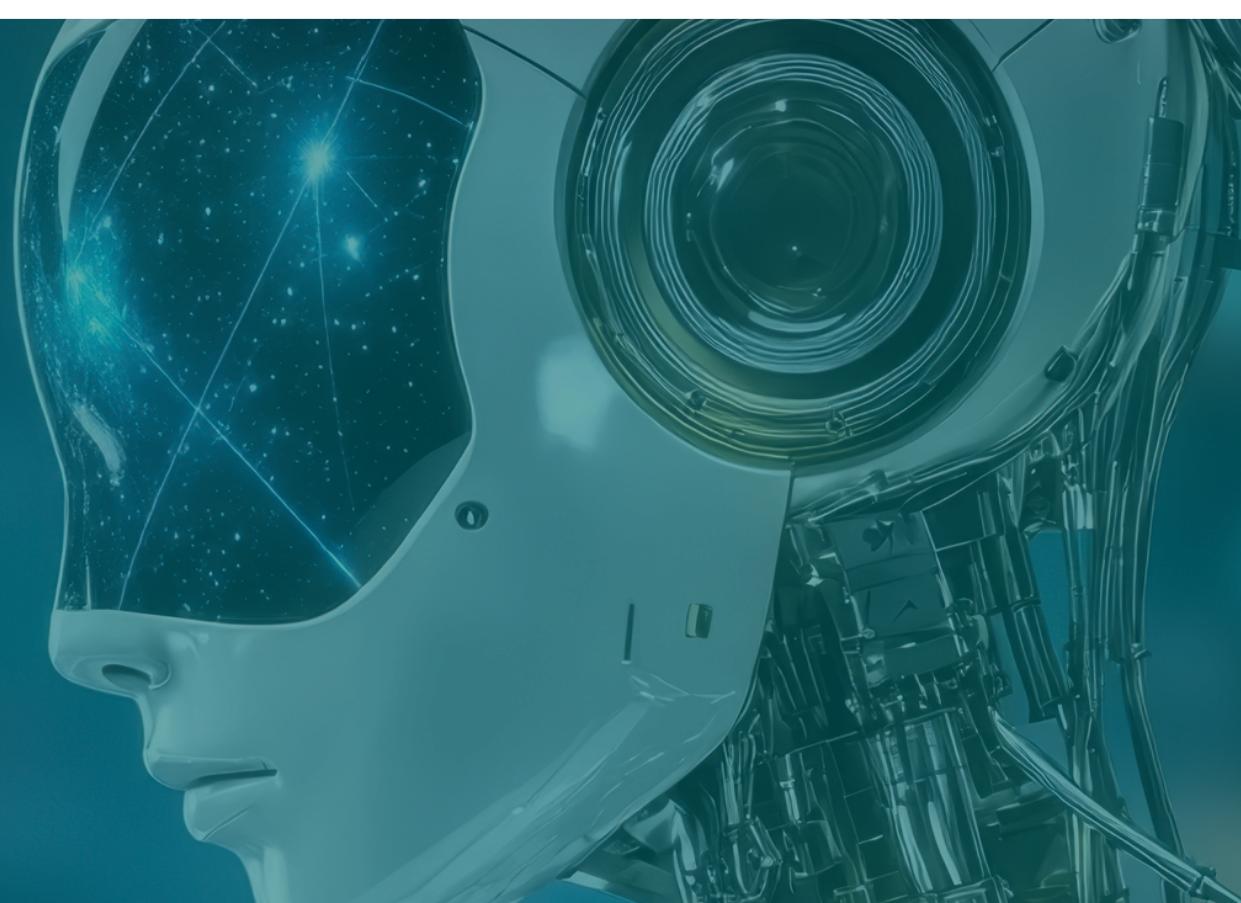
# AI and ML Bootcamp

Building and Deploying Production-Ready Intelligent Systems



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## GreyCampus Edutech

Established in 2014, is a global upskilling platform that builds productive talent for the industry through customised, structured and rigorous training solutions. We focus on effectively mobilizing skills, resources, and knowledge to produce skilled workforce who can stand out in the hyper-competitive tech sector.

# Why AI is no longer an option?

India, the engine of global tech innovation, isn't just adapting to AI – we're defining how the world uses it.

From healthcare and fintech to logistics and design, AI is the invisible force powering the next wave of growth.

### AI is reshaping India's innovation map.

Startups across Bengaluru, Hyderabad, and Pune are using Generative AI for automation, personalization, and product acceleration.

### AI is transforming how India works and lives.

From financial modeling to local-language chatbots, Indian-built apps are setting global standards in applied AI.

### Education is going AI-first.

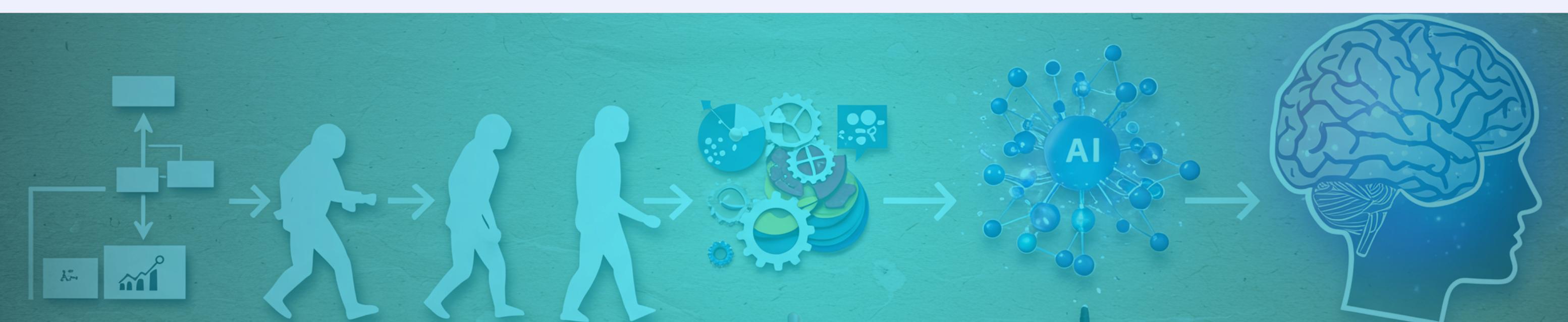
IITs, IIMs, and leading universities are embedding AI thinking and research directly into their core programs.

### AI talent is the new economic currency.

Indian unicorns and Fortune 500 companies are hiring for AI-first roles – data, automation, and decision intelligence – across every vertical.

### Future-proof jobs demand AI fluency

Over 80% of emerging roles now require working knowledge of machine learning and intelligent systems – regardless of domain.



# Who This Bootcamp Is Built For?

**Your Background Doesn't Define Your Future – Your Skills Do.**

## Ideal for:

This program is designed for learners from all walks of life who are ready to build a career in AI and Machine Learning.



### Career Starters

Fresh graduates and early professionals looking to begin their careers in the most in-demand technology of the decade.



### Career Switchers

Working professionals from IT, analytics, engineering, or even non-tech fields seeking to transition into AI, ML, or Data Science roles.



### Career Relaunchers

Individuals re-entering the workforce after a career break who want to upskill in AI to restart with confidence and relevance.



### AI Enthusiasts

Business leaders, product managers, and founders who want to leverage AI for smarter decisions and competitive growth.

## Not for passive learners

It's for **doers** who turn capability into **competitive advantage**.

# CURRICULUM

Transform from AI-curious to AI-confident. This curriculum focuses on practical applications, no-code tools, and measurable business impact to boost productivity and demonstrate value to leadership.

## Python in AI Applications

- Lists for AI Data Management
- Tuples for Model Configuration
- Sets for Feature Engineering
- Dictionaries for AI Mapping
- Functions for Machine Learning Algorithms
- Lambda Functions for Data Transformation
- Higher Order Functions for ML Pipelines
- Data Structures in Neural Networks
- Functional Programming for AI
- Python Collections for Deep Learning

## Exploratory Data Analysis (EDA)

- Introduction to EDA
- Loading and Cleaning Data with Pandas
- Handling Missing Data
- Data Summarization (Descriptive Statistics)
- Univariate Analysis (Histograms, Box Plots)
- Bivariate Analysis (Scatter Plots, Pair Plots)
- Correlation Heatmaps
- Data Distribution Visualization (KDE, Distplots)
- Customizing Visualizations with Seaborn and Matplotlib
- Interactive Visualizations with Plotly

## Machine Learning Models

- Introduction to Supervised Learning

- Regression:
  - Linear Regression
- Classification:
  - Logistic Regression
- Decision Trees
- Random Forests
- Support Vector Machines (SVM)
- Unsupervised Learning:
  - Clustering

## Deep Learning (CNN & RNN) and Natural Language Processing (NLP)

- CNN and its working principle
- RNN and its types
- Tokenization, Word embeddings
- Word embeddings
- Introduction to nltk, spacy libraries

## Foundational Language Models & Fine-tuning: PEFT, LoRA, Embedding Models

- Foundational Language Models:
- LLaMA4 Scout and LLaMA4 Maverick
- LLAMA4 Chat
- LLAMA4 code
- E5 embedding
- MIXTRAL 8X7B
- Para Efficient Fine-tuning (PEFT)
- LORA
- P Tuning
- Fine-tuning of Embedding Models

## RAGs: Chunking, Embedding & Frameworks (LangChain, Llamaindex, LangGraph)

- RAGs:
  - Chunking, Embedding
  - Search, Ranking
  - Generation, Evaluation
- RAG frameworks:
  - LLANGCHAIN basics
  - LLAMAINDEX
  - LLANGRAPH

## AI Agents, AutoGen & Deployment: Vision, Containerization, Kubernetes

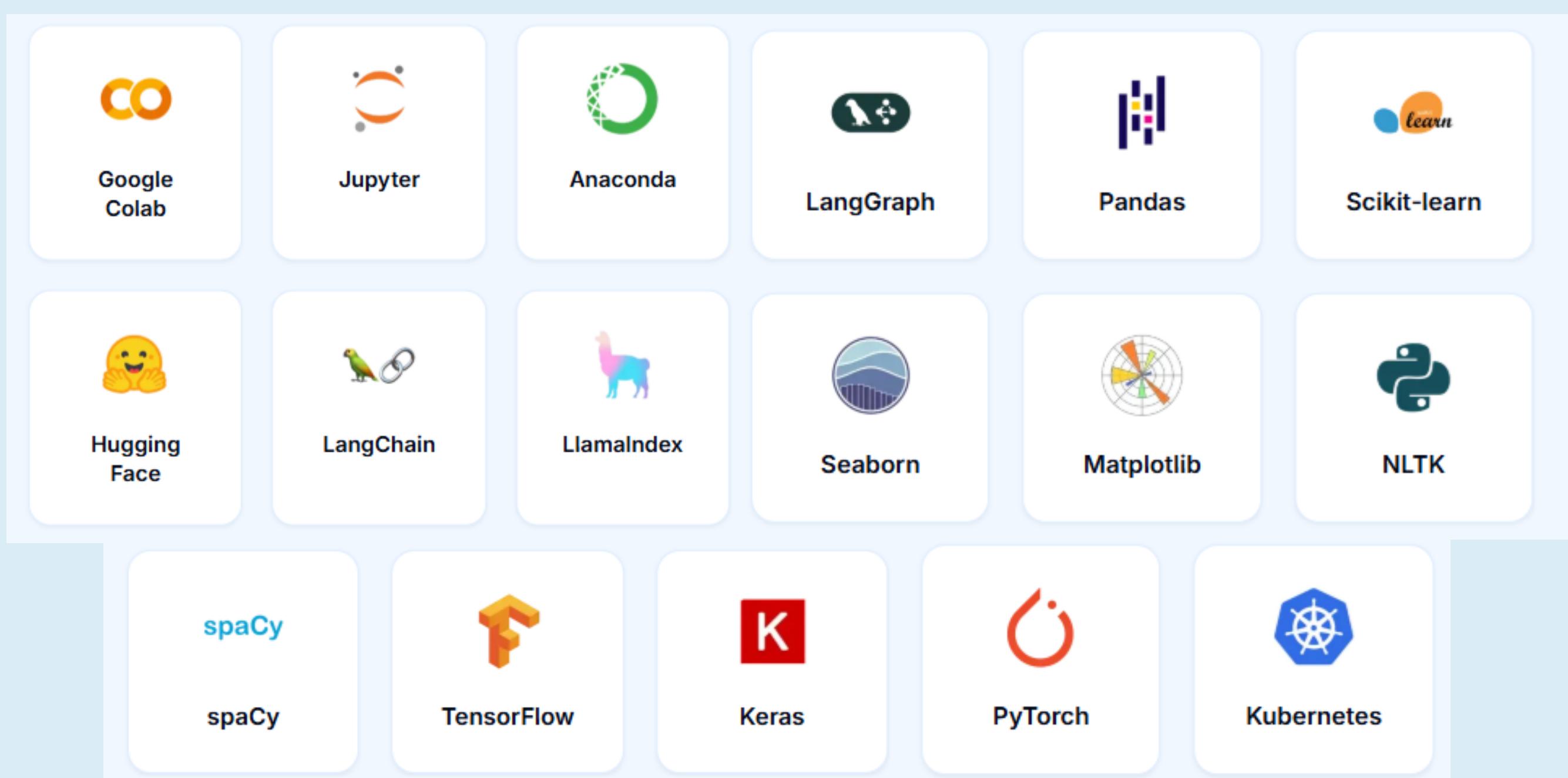
- Agentic workflows and function calling
  - LLANGCHAIN advanced
  - AUTOGEN
- Containerised deployment and Kubernetes - LLM deployment

## Mini Capstone & Capstone Projects

- End-to-End Capstone: Design, Build & Deploy AI Solutions

## TOOLS YOU WILL MASTER

You'll emerge with fluency across leading tools in real enterprise environments.



# PROJECTS

10+ Projects for Hands-on Experience

## AI-Powered Competitive Analysis Tool



Create a smart AI tool to analyze competitors' strengths, weaknesses, and strategies, providing actionable insights for marketing and business development teams.

## AI-Powered Content Planning Assistant



Build a tool that uses AI to generate a complete, month-long content calendar for blogs and social media platforms in under 2 hours, based on target audience and trending topics.

## Automated Competitor Intelligence System



Design a system that continuously monitors competitors' online activities using AI, delivering real-time alerts and analysis to help brands stay ahead.

## AI-Driven Campaign Creation Assistant



Create a campaign builder powered by AI to generate engaging multimedia content—including graphics, videos, and copy—for various platforms and audience segments.

## AI-Powered Customer Support Routing System



Develop an AI tool that automatically categorizes and routes support tickets to the appropriate team, while generating smart response suggestions to enhance efficiency and customer satisfaction.

## AI-Driven Data Analysis & Reporting Assistant



Build an AI system that analyzes sales and marketing data to identify trends, gaps, and opportunities—then visualizes the insights in dashboards or reports for decision-makers.

An Opportunity to Learn from the Industry Leaders

# Career Acceleration Skills

GreyCampus's Personality Development Sessions will unlock your full potential and carve out a rewarding career path. Elevate your skills, boost your confidence, and thrive in today's competitive professional landscape. Your journey to success begins here.

## Communication Skills

Develop the ability to write concise analytical reports, summarize findings, and articulate recommendations with clarity and impact.

Effective communication transforms good analysis into great decisions.

## Analytical Problem Solving

Adopt structured thinking frameworks to tackle business challenges.

Through design thinking and root-cause analysis exercises, you'll learn to approach problems like a consultant – analytical, logical, and creative.

## Emotional Intelligence & Collaboration

Data professionals work across business, tech, and strategy teams. Strengthen your empathy, teamwork, and interpersonal awareness to communicate effectively across roles.



## Time Management & Productivity Excellence

Master the ability to manage deadlines, multitask across projects, and maintain work-life balance. Learn to plan your analytical workflow for accuracy and speed.

# Success Stories



Kotha  
Dinesh

**Prolifics®**

FROM  
Entrepreneur

TO  
Gen-AI Software  
Engineer



Suraj  
Sahu

**TransBnk**

FROM  
Simulation Engineer  
TO  
AI/ML Specialist

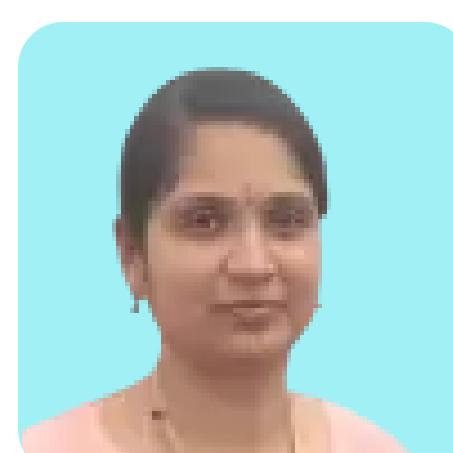


Asra  
Hussain

**SMARTBRIDGE**  
Let's Bridge the Gap

FROM  
Intern

TO  
ML Engineer



Drakshayani  
Desai

**Prolifics®**

FROM  
College professor  
TO  
AI Software Engineer



Archita  
Saha

**amazon**

FROM  
Content Writer

TO  
ML Data Associate



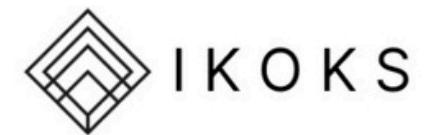
Syed  
Owez

**Prolifics®**

FROM  
Intern

TO  
Gen-AI Software  
Engineer

# We Work With 600+ Hiring Organizations



and many more...

- Enrollment Process

You can register through the website. In case you are facing any issues, you can get in touch with us at [contact@greycampus.com](mailto:contact@greycampus.com)

# CONTACT US

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