



ROADMAP TO BECOME A DATA SCIENTIST!

NOT SURE WHERE TO BEGIN?

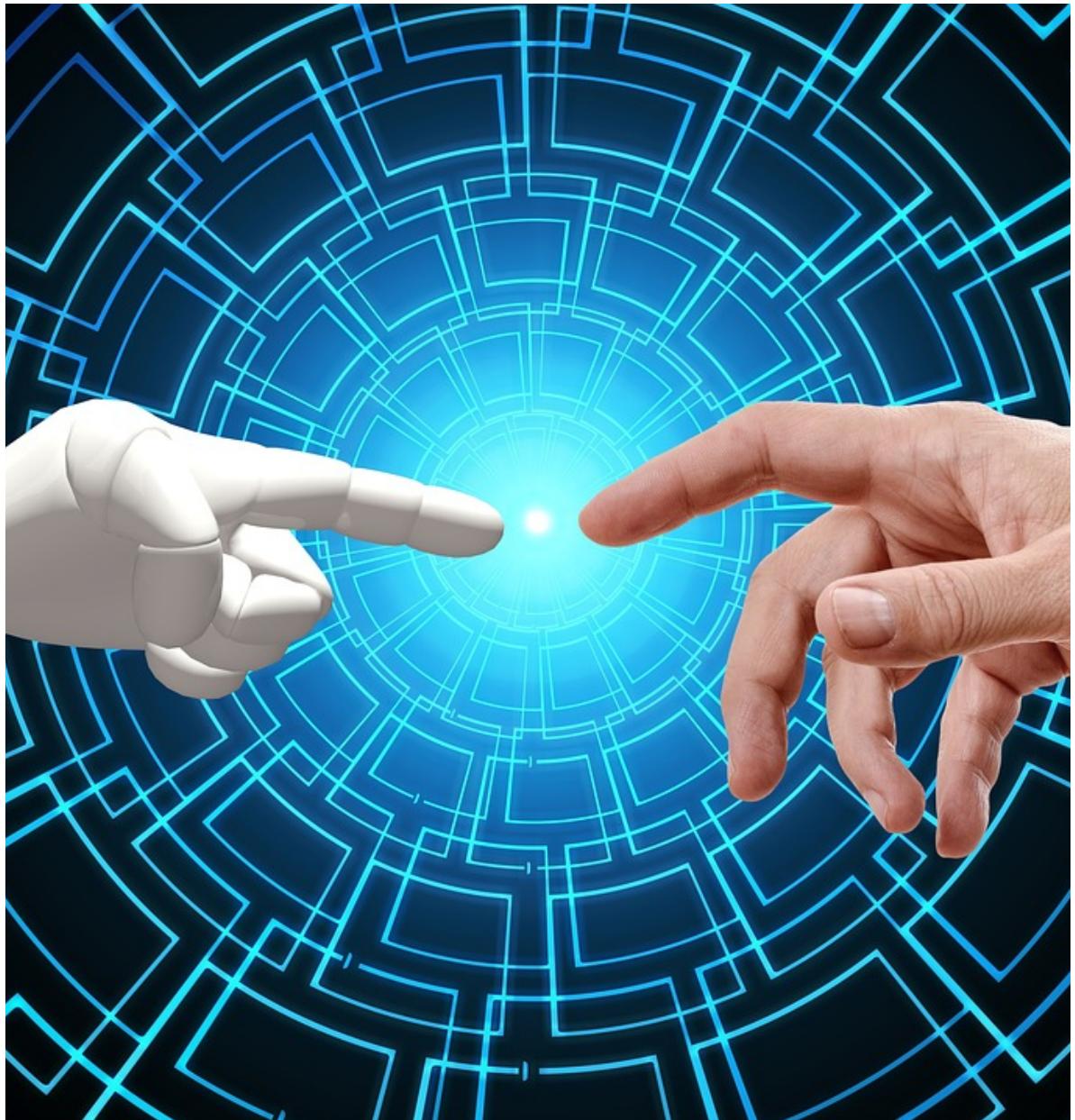
A large word cloud centered on the word "DATASCIENCE". The words are in white on a dark blue background. The size of each word indicates its frequency or importance in the field. The words include:

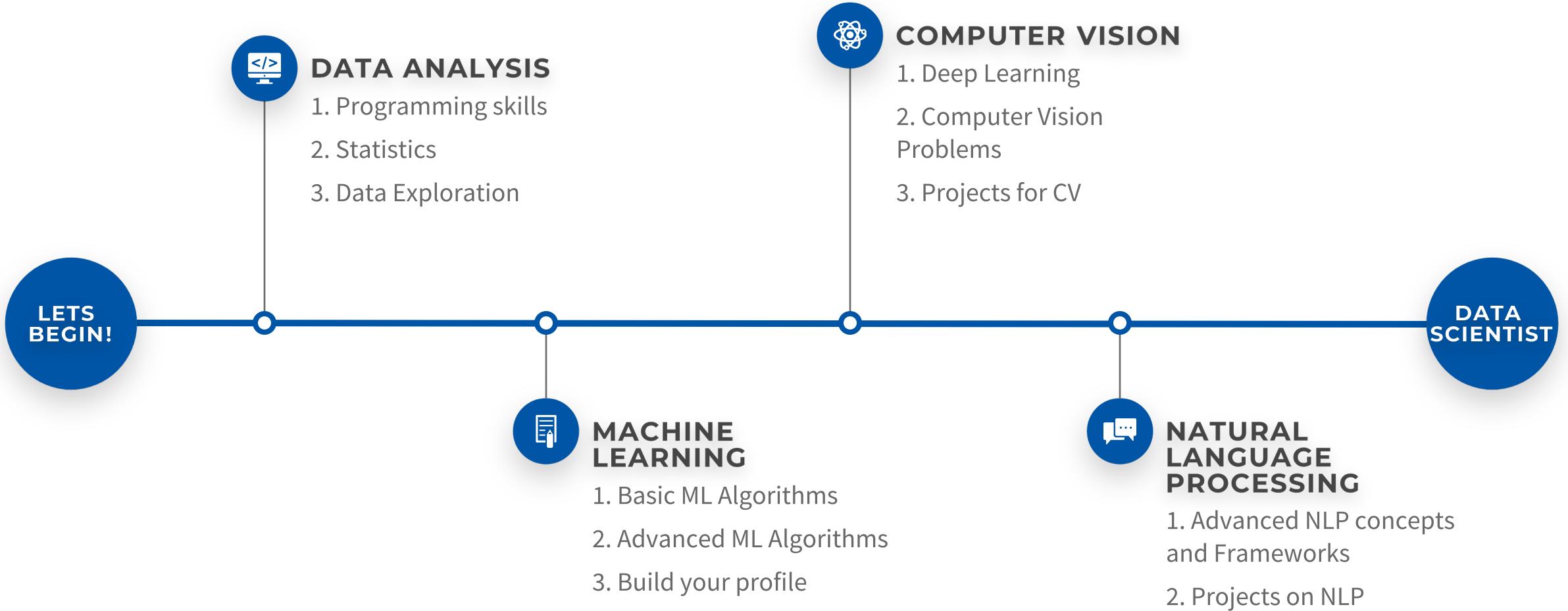
- EXPLORATION
- CLASSIFICATION
- CLASSIFICATION
- ENGINEERING
- MULTILABLE
- CHART
- LEARNING
- GANS
- CLASSIFICATION
- MULTICLASS
- VISION
- IMAGE
- LANGUAGE
- LEARNING
- RANDOM
- NETWORK
- TREE
- VISION
- SQL
- RNN
- NEURAL
- CHATBOT
- BOOSTING
- JAVA
- RECOMMENDATION
- NEURAL
- NETWORK
- DATA
- DEEP
- SERIES
- SPARK
- PYTHON
- NEURAL
- DATA
- SCIENCE
- NAIVE
- DATASET
- FOREST
- CNN
- TABLEAU
- DECISION
- FEATURE
- FOREST
- LANGUAGE
- DIMENTIONALITY
- COMPUTER
- LEARNING
- NAIVE
- TREE
- DECISION
- DEPLOYMENT
- XGBOOST
- DATA
- DATA
- SPARKLSTM
- XGBOOST
- PLOT
- EXCEL
- BAYES
- DEEP
- REGRESSION
- JUPYTER
- MODEL
- DATA
- COLUMN
- REGRESSION
- FEATURE
- TRANSFER
- COLLECTION
- FEATURE
- DETECTION
- FACEDETECTION

ANALYTICS VIDHYA PRESENTS

DATA SCIENCE ROADMAP!

MOVE ON TO FIND OUT ...





Milestones in your Data Science Journey . . .

PROGRAMMING SKILLS



WHICH PROGRAMMING LANGUAGE SHOULD I
START WITH?

PROGRAMMING SKILLS



WHICH PROGRAMMING LANGUAGE SHOULD I
START WITH?

PYTHON IS THE SIMPLEST LANGUAGE TO
START YOUR JOURNEY WITH!

- * *Start getting acquainted with the Python programming language.*
- * *Familiarize yourself with Python libraries for Data Science.*
- * *Practice, Practice, Practice!*

STATISTICS AND DATA EXPLORATION



DO I NEED STATISTICS FOR DATA SCIENCE?

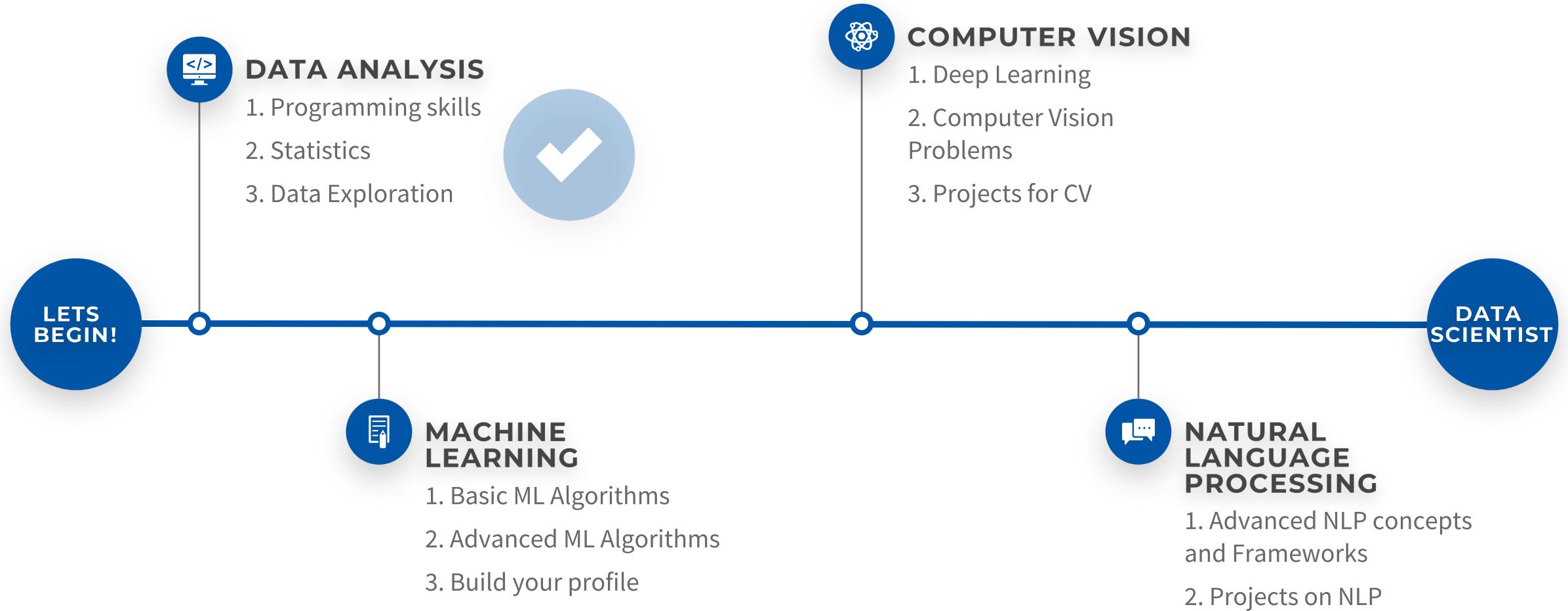
STATISTICS AND DATA EXPLORATION



DO I NEED STATISTICS FOR DATA SCIENCE?

BASIC KNOWLEDGE OF STATISTICS IS NECESSARY TO UNDERSTAND DATA!

- * Cover the basics of Statistics including descriptive and inferential statistics.
- * Learn to perform Exploratory Data Analysis (Univariate and Bivariate) with Python.
- * Practice generating insights on a real-world data.



Milestones in your Data Science Journey . . .

BASIC MACHINE LEARNING



WELCOME TO THE WORLD OF
MACHINE LEARNING!

BASIC MACHINE LEARNING



**WELCOME TO THE WORLD OF
MACHINE LEARNING!**

- * Explore the Basic ML algorithms like linear models, decision trees, Naive Bayes among others.
- * Understand important ML concepts including feature engineering, dimensionality reduction, validation techniques and evaluation metrics.

ADVANCED MACHINE LEARNING



DIVE DEEPER INTO ADVANCED
MACHINE LEARNING!

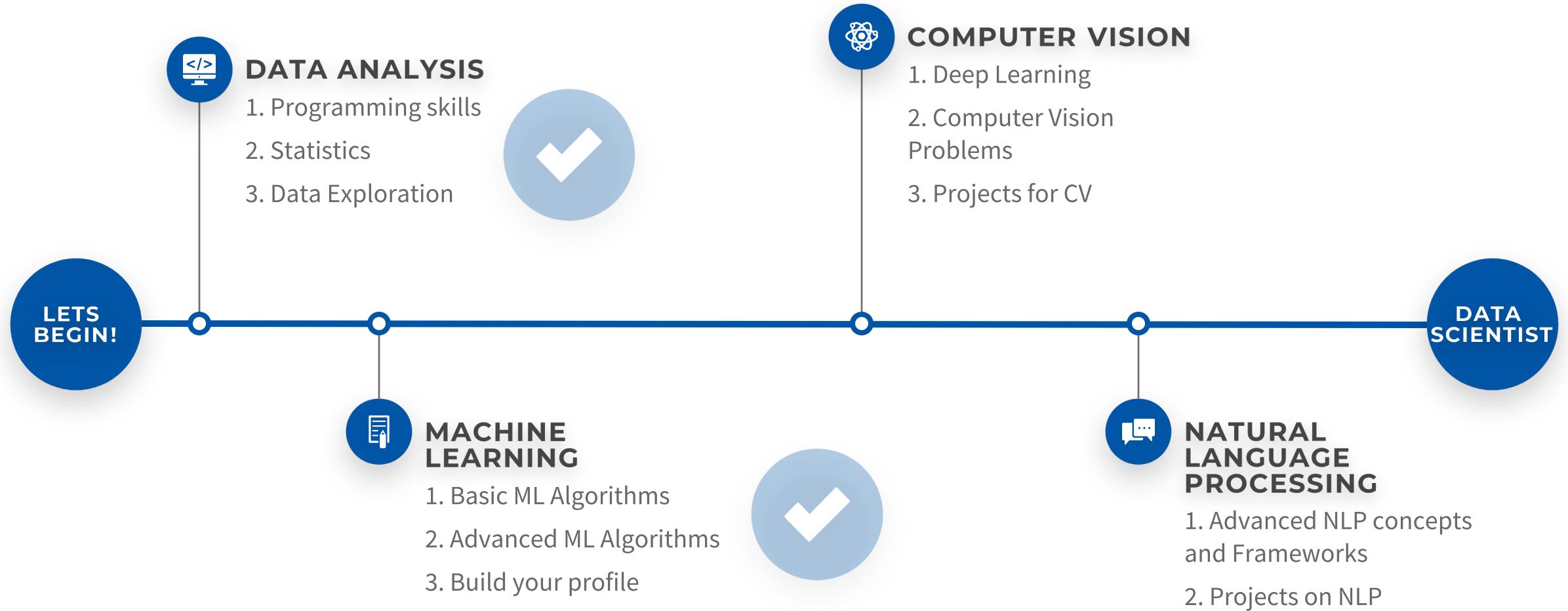
- * Explore the advanced ML the concepts of stacking, blending and boosting.
- * Learn about time series forecasting and unsupervised learning algorithms.
- * Start working on ML projects to gain a hands-on practical experience on.

BUILD YOUR PROFILE



CREATE YOUR DIGITAL PRESENCE

- * Participate in Machine Learning Hackathons and apply the techniques learned so far.
- * Build your Digital Presence through LinkedIn, GitHub, Medium and other platforms.
- * Create your resume and apply for internships and jobs in Machine Learning.



Milestones in your Data Science Journey ...

FUNDAMENTALS OF DEEP LEARNING



TAKE THE NEXT STEP INTO THE WORLD OF
DATA SCIENCE WITH DEEP LEARNING

FUNDAMENTALS OF DEEP LEARNING



TAKE THE NEXT STEP INTO THE WORLD OF
DATA SCIENCE WITH DEEP LEARNING

- * Familiarize yourself with DL frameworks like Keras (or you can choose others based on your preference – such as PyTorch).
- * Learn how to work with image data and acquire neural network expertise.
- * Explore different regularization techniques, how to perform hyperparameter tuning, and transfer learning, and much more.

MASTER COMPUTER VISION



COMPUTER VISION IS THE MOST IN-DEMAND FIELD IN THE INDUSTRY

- * Get familiar with the state-of-the-art algorithms for Computer vision - YOLO, RCNN and more.
- * Work on computer vision problems including image classification, object detection and image segmentation.
- * Explore the advanced concepts including image segmentation and image generation.

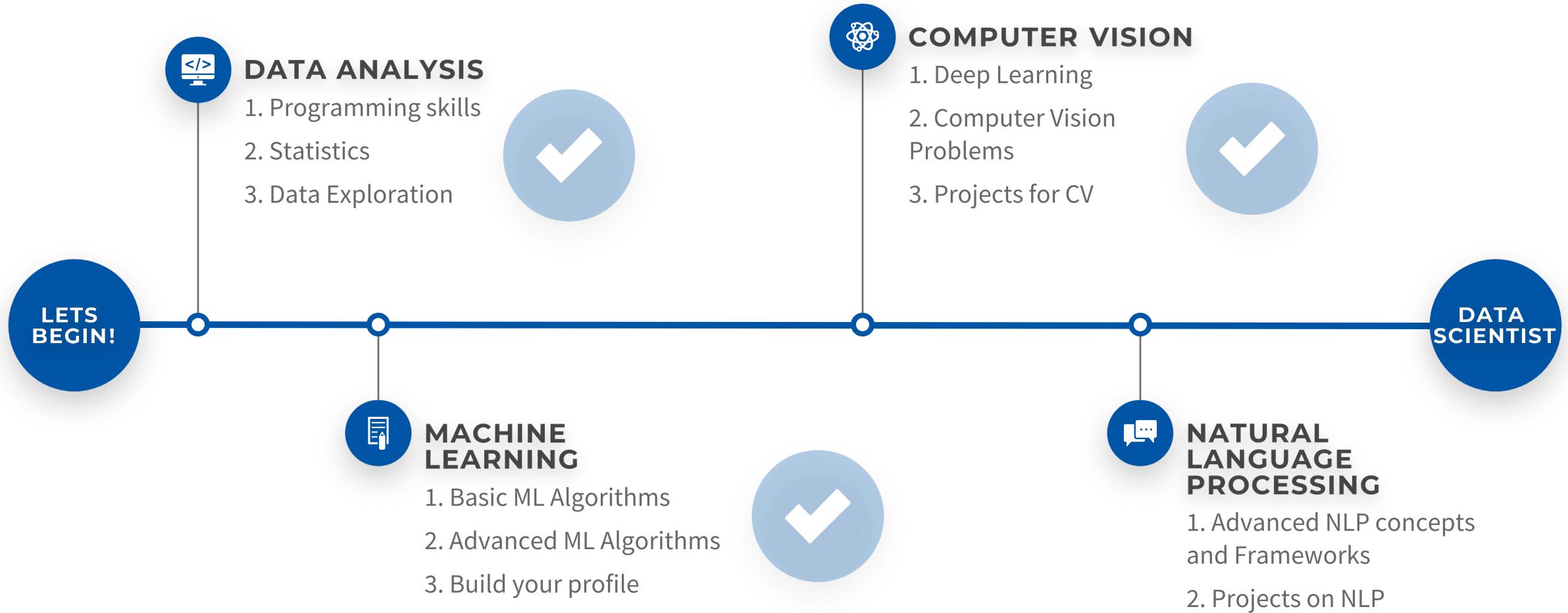
PROJECTS ON COMPUTER VISION



IMPLEMENT YOUR KNOWLEDGE ON
REAL-WORLD PROJECTS!

- * Build Deep Learning models to solve computer vision problems.
- * Some popular projects you can take up include - Digit recognition, face detection, age detection.

HERE IS A LIST OF DATA SCIENCE
PROJECTS TO TRY YOUR HANDS ON!



Milestones in your Data Science Journey . . .

NATURAL LANGUAGE PROCESSING



**NLP IS THE SCIENCE OF TEACHING MACHINES
HOW TO INTERPRET TEXT**

- * Start getting acquainted with the state-of-the-art NLP frameworks.
- * Explore the advanced concepts like topic modeling, text summarization and more.
- * Participate in hackathons and solve projects around NLP.

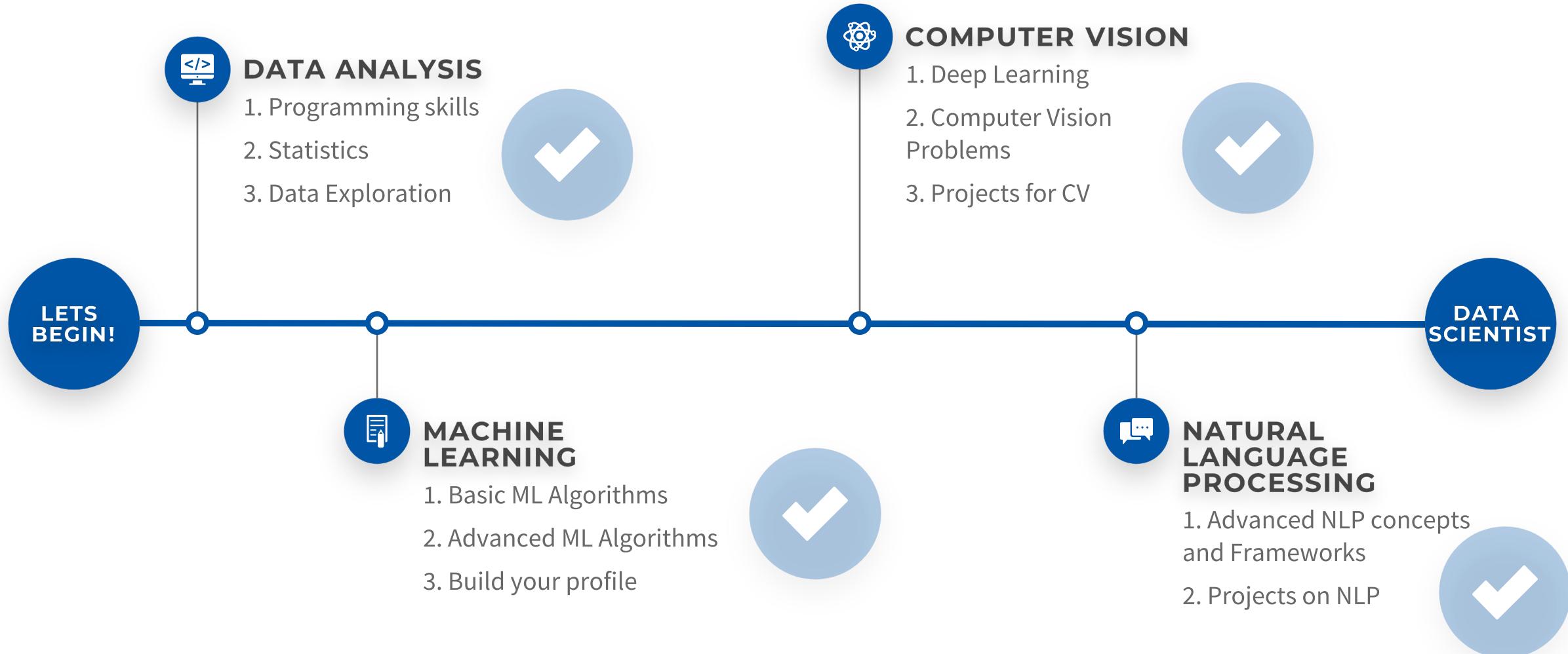
PROJECTS ON NLP



PRACTICE ON REAL-WORLD DATASETS!

- * Projects are a great way to practice your skills and enhance your profile.
- * Work on NLP problems like Text classification, Building Chatbot, Text summarization etc

HERE IS A LIST OF DATA SCIENCE PROJECTS
TO TRY YOUR HANDS ON!



Milestones in your Data Science Journey . . .

LAND THE DREAM JOB



IT IS TIME TO APPLY FOR JOBS

- * Prepare for data science interview questions through online blogs and websites.
- * Start participating in hackathons and competitions, and practice your skills on real world problems.
- * Update your linkedin and Github profiles.
- * Build your resume and start applying for Data Science jobs!

LAND THE DREAM JOB

IT IS TIME TO APPLY FOR JOBS

WANT TO FIND ALL OF THIS
AT ONE PLACE?

CERTIFIED AI & ML BLACKBELT+ PROGRAM





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